

## SEQUENCE LISTING

<110> Dillon, Davin C.  
Jiang, Yuqiu

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND  
DIAGNOSIS OF BREAST CANCER

<130> 210121.491C8

<140> US

<141> 2003-11-19

<160> 313

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<211> 298

<212> DNA

<213> Homo sapiens

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gctcgagtga tgacagcctt gaaccttgct cttccttgct tcagagggga aaaaggaatt 180
ggatttcttc agggctctggg gcctgggctg tggcttgagg ttccgagact gatgaatcca 240
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<210> 2

<211> 276

<212> DNA

<213> Homo sapiens

<400> 2

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tgtattttca agcttctgaa cttaggcaaa atattcatcg caaagtctct agcgtcatat 120
ttttctcacc taaattacgt ttccacgaga ttatttatat atagttggct tatctctgca 180
gtccttgaa gtagaagttgt gtgttactag gctgtgtttt gggatgtcag cagtggcctg 240
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<210> 3

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 141

<223> n = A,T,C or G

<400> 3

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cactctgcca aagactacta naaaaatttg atcattatta aattcaatgt tatttgacag 180
tgtgaactct atgtaacagc acaaattctg gactttgaat ctggctgctg tcctcacctg 240
aaccattaaa atgaccttgt taacaaggaa ggaatcaatg gggaaatatc acaaccagag 300
attggctgtg tgtccaaggg tgctttgtct tgttgccagg atcagactgt gaaatcacag 360
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<210> 4

<211> 696

<212> DNA

<213> Homo sapiens

<400> 4

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ctccggggaa gagctggatc agaggtattc caaggccaag ccaatgtgta acacatgttg 180
gaaagtgttt tcagaagcca gcagtttgag aaggcacatg agaatacata aaggagtcaa 240
accttacgtc tgccacttat gtggaaaggc atttacccea tgtaaccagc tgaaaacgca 300
tgtaagaact catacagggtg agaagccata caaatgtgaa ttgtgtgata aaggatttgc 360
tcagaaatgt cagctagtct tccatagtcg catgcatcat ggtgaagaaa aaccctataa 420
atgtgatgta tgcaacttac agtttgcaac ttctagcaat ctcaagattc atgcaaggaa 480
gcatagtgga gagaagccat atgtctgtga taggtgtgga cagagatttg ctcaagccag 540
cacactgacc tatcatgtcc gtaggcatac tggagaaaag ctttatgtat gtgataacctg 600
tggggaaggca tttgctgtct ctagttctct tatcactcat tctcgaaaac atacaggtaa 660
gtttgacagg gagagactgc ttaaaataaa gttata 696
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<210> 5

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 332

<223> n = A,T,C or G

<400> 5

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tatttacaac aatccagagt agcgtttatg agacactgaa aaagacaggg aggaaatcct 120
ttttcaagat atgaagtcag aacctgaatg tagacatcgg acagagaagt cctcaaccac 180
aaacctgtcc tccagctcta gagagagtaa ggctgtattt ccaaccttga gatttttcat 240
tacattttcc cctttttggg tgttaaattc tttccaagaa tgctgtactt gtaaaaaatga 300
ttttattcta gctacaaaac atttcattta anaaaaccgc attttatatc cttgtgtgaa 360
atgtcccaa aagccatcaa gatatggaga caacagattt taaaaacata aatctaata 420
tatgggcttg aaacagtatg aacatttaac agagtgcac gatatcatta ttatatttgc 480
ttgtcatgag atgaaaggcc tggaggcaga tgggtattaa tcataattcc tgagcttcta 540
cagaaatttt aaaatgaaat tactaactgc ttaaaattat 580
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<210> 6

<211> 557

<212> DNA

<213> Homo sapiens

&lt;400&gt; 6

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actaacttaa aaaacaaaaag attatagtga cataaaatgt tatattctct ttttaagtgg 120
gtaaaagtat tttgttttgct tctacataaa tttctattca tgagagaata acaaataatta 180
aaatacagtg atagtttgca tttcttctat agaatgaaca tagacataac cctgaagcct 240
ttagtttaca gggagtttcc atgaagccac aaactaaact aattatcaaa cacattagtt 300
atttccagac tcaaatagat acacattcaa ccaataaact gagaaagaag catttcatgt 360
tctctttcat tttgctataa agcatttttt cttttgacta aatgcaaagt gagaaattgt 420
atthttttctc cttttaattg acctcagaag atgcactatc taattcatga gaaatacgaa 480
atthtcagggtg tttatcttct tctttacttt tgggggtctac aaccagcata tcttcatggc 540
tgtgaaattc atggctg                                     557

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&lt;210&gt; 7

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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cattgtgttg ggggaagtag ggaatattat tgaggcaggg taagaaatgg tttacaattc 60
tgaaaggatg atcaaagaaa aactcattgt tgagaaagta atatgagtag agacctgaaa 120
taagttaggg agtgacgggt tatgtccagg gcaataatgt ttctgacaga ggggagagtc 180
atthtcagaag cctagaggca tgtgtaaagc tgttagaatg ccagacagtc accaggccaa 240
gatgtgcaga tatccataag tgaaggggaa agaaatacaa aatgaaggca gagaaatcac 300
aaaattggat aagtgggtgcc ttgtaggcca tgatgatttt agttcatact aaaattgagt 360
taggctgccca ttgtagggtt tgtgagctca gggataacat ggtctgaatt ttattttctaa 420
aaggatcact ccaagtgtta cattgcaaag aataacgtaa ggtggctggt gtagtagact 480
aaagtggaa atagtaacag tgaaatacat tttgtggtaa agcttggtag atthgaccac 540
acaaaattgt gaaattacct gtggcacaaa aaatatcaaa ggtacatata gacagaagaa 600
ccttgcgatt gtttattaat gtccttaatt tataatgtta ataccagtag aag                                     653

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&lt;210&gt; 8

&lt;211&gt; 456

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 8

```

cattgtgttg ggctaatact tgggtctctat ccacctgcc tagcaattta tctcaaagct 60
tcaagttcct gccatctaca tgtgccagag tcaaccaatc aatggctcag acagataagc 120
caacatgcat ccgcgcggag ctgccgaaaa tgctgaagga gtttgccaaa gccgccattc 180
gggcgcagcc gcaggacctc atccagtggg gggccgatta ttttgaggcc ctgtcccgtg 240
gagagacgcc tccggtgaga gagcgggtctg agcgagtcgc tttgtgtaac tgggcagagc 300
taacacctga gctgttaaag atcctgcatt ctccaggttg tggcagactg atcatccgtg 360
cagaggagct ggcccagatg tggaaagtgg tgaatctccc aacagatctg tttaatagtg 420
tgatgaatgt gggctcgcttc acggaggaga tcgagt                                     456

```

&lt;210&gt; 9

&lt;211&gt; 512

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 9

```

gtttttgatt cattttatth taacaatgth taacaatgta agtccacata taagataccc 60
aagctthtaa tatctataca tataaaactga tthcaacatc tthggcttca aaacagtaaa 120

```

```

attgtttttc caatatcaaa caagtcaaat ttggaaaagg cataaatctg tatgaacatc 180
ctgtatccat ggagatgtca tgactaaatt cagaaatagc ctcatctctc tttgtttttg 240
ctttcttatg tctgagttct gcatccaatt ctgtttatta catagttttc tataagattg 300
tacccttttt aaacagtgtc tattgatata tattctaggt gtctggaagt ctttttctat 360
agtcggctct tggttgctct tgggaatatg aatggaagga gcagagtga aataaatctg 420
agggcaatat tcataaataa tccaagagct acactgtagt caactctccc cagagcctga 480
ccacagtgtt tccctctctc ctctcccaa cc 512

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<210> 10
<211> 308
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 214, 276
<223> n = A,T,C or G

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<400> 10
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atccattaaa aataaaaagga aaggaaaacg gcagggaata gtgcagtaat aacaaatgg 120
gacatgcttg gtcttaagca tcatagcaaa ctctattatt ccaatgaaac aaggattttt 180
agacccatct ttggaaatga ttcccaaatt aganaaccat cagggtctca aaaaggaagg 240
gtcatcaaag tccatccagc ccagccaccc tgaggngcct gtatctctc aacaagccca 300
acacaatg 308

```

```

<210> 11
<211> 510
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 98, 327
<223> n = A,T,C or G

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<400> 11
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attaaaattc catttaacta aagatgggta accccaanaa attgtacagt agttgatttc 120
tgctatataa tgccagtcct atgccatata ataagaactg caacattagc tgtcacttcc 180
tccattgctc ttctggaccc taagggatga gggaggggac tcagacacaa aacacaaccc 240
aaataaactg tgcagtgatt cctaatagtt ataaacccaa tctaagttgt ccaaacagct 300
gaagaataac tgcaggtatt gttccanagc tgatacgagg ttttgctttt acagcctggg 360
aaaagttctg cactaggtga gaagtcacag tttaaggatg catgttctgt aaatagttac 420
tacatataca catttactgt ctgtaaacac tagaaatata cattagacag agtaccctca 480
caagttgggt acagttttaa aaagaagatg 510

```

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<210> 12
<211> 611
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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<222> 196

<223> n = A,T,C or G

<400> 12

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agttttataa aatattttat ttacagtaga gctttacaaa aatagtctta aattaataca 60
aatccctttt gcaatataac ttatatgact atcttctcaa aaacgtgaca ttcgattata 120
acacataaac tacatttata gttgttaagt caccttgtag tataaatatg ttttcatctt 180
ttttttgtaa taagnacat accaataaca atgaacaatg gacaacaaat cttattttgt 240
tattcttcca atgtaaaatt catctctggc caaaacaaaa ttaaccaaag aaaagtaaaa 300
caattgtccc tctgttcaac aatacagtc tttttaatta tttgagagtt tatctgacag 360
agacacagca ttaaactgaa agcaccatgg cataaagtct agtaacatta tcctcaaaag 420
ctttttccaa tgtctttcct tcaactgttt attcagattt tggccagtac aaataaagat 480
tgggtctcaac tctctctttc attagtctca agtggttccta ttatgcactg agttttcaga 540
ccttcccaac tggcatgtgt tttaagtgtg agtttctttc tttggcttca agtggagttt 600
cacaacattt a                                     611

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<210> 13

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 62, 91, 105, 195, 294

<223> n = A,T,C or G

<400> 13

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anaacaatca tgactatgta attaactgta naaataactg ctaanaaaat atagcaatat 120
ttaacacagg atttctaaaa ccattatatt ttcattactt ttcccaaagc taatgtccca 180
tgtttttatt tatanacttt gtttatcaag atttatatgc atttggcacc tttttgggct 240
gaaaatagtt gatgtactct gtacagtaat gttacagttt tatacaaaat tcanaaatat 300
tgcatttgga atagtcttta tggtcctctt ccaagtattc agtttcacac aacagcaaac 360
actctgaatg cctttcctcc tgcccaacac aatg                                     394

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<210> 14

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 249, 258

<223> n = A,T,C or G

<400> 14

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agcaggnact ataattttat aattaatttt acaattcatg tagcaaatgg aaaatcatat 60
agagaggcca atgtatataa ataagagttt atacagaaac tgccaattca caaacagca 120
ctgcatgggt tctatattgc aagcacaaag catggtcaca tgggtccact gtacaggtag 180
aaacaagccc acagacaata catagagtac cacctgaaac gagggccttg gagctgctca 240
gcttcttana aaataganaa ctttcaatgg tcataatata ttttgattca aaatgtcttc 300
taaaatgttt tcattgtggg agaaaattaa gaaggggcaa aaatccatct atggaacttc 360
t                                     361

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<210> 15  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 460  
 <223> n = A,T,C or G

<400> 15  
 acttacaaaa ttaattttat tttgcaaaac tcaacaaata cacgttcaga tctggtttct 60  
 cttcaaaaaca tgtgtttggt tttttaacaa acatgcaagt taatttggca tgccaaacat 120  
 ctttctctct agctcgctt ggaaaaattt ttttcataac acaacaagg gtgcaaatat 180  
 tgtccaaacc tatttacatt tttaccctct agaattacat acattaatat ttattgggag 240  
 gaaagcaaaa ctgcaaaaaca tagtctttgg cattcacatt tgcttcagca gtataattaa 300  
 aaccttatat ttgtttttaa gataaacagt ttgaaggaaa tttaataaat cttgttttgg 360  
 ctctgcaaa gagccactat atcaaagcat ttaactggag ctgttgagtt cctgctggta 420  
 gaatattact tccagcctat ttattagctt gtcttcgggn ggccaatac atgctttttt 480  
 ccctctacac tgaatgaaag taaaaaaga aaaccatttc ttttcccaa cacaatg 537

<210> 16  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 467  
 <223> n = A,T,C or G

<400> 16  
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 cacttattca tatactgaat ataacttttc ctggagcact ctagagcttg tttggagttg 120  
 gagaatactg ccaggctttt cctaattctt ttggtctttg gaagtgggca gggtttctca 180  
 aaccaagtgt cttccatggg ccattggcaa aggcttccct tcatcagctt ggaggggcag 240  
 aaagaccatg gcttcagcac ttccattttg gaaagaagta acaaaaaagt gaattaatga 300  
 gcaatcgga agactcaaag cattttgtac tccacagttc atttcttcac acaaacgtcc 360  
 attactgcag cgggcatgaa aaccggcagg gtgttaggct catggcctga agagaagtca 420  
 catcaccagc cgatgttttc atgcaaaagg caatcgatgat gattcanaac ctggttctga 480  
 atttctccag gtgtgctcgt gagctgaagg tcatgcccat tctgtgcatc ctgtgcccaa 540  
 cacaatg 547

<210> 17  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<400> 17  
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 tcttctttca tcaaacacat ctcgatgta aaaacagttt cttcactatc agtattacag 120  
 aagacacttt tagccaatga agttttcaaa agaagaaagc ctctgttgtt cgcttttttg 180  
 atatgcactg aacttctgaa atatcttttc ccaaaagtcc acaaattcct tttccaaatc 240  
 ttttaaagac tgtgaatctt tttcaaaatt ctccagctcc tctatgataa tgaattggaa 300

tttatcaagt tttttaatcc tagagtcttg actttggatg at

342

<210> 18

<211> 279

<212> DNA

<213> Homo sapiens

<400> 18

catcataagg	ttttattcat	atatatacag	ggtattaaga	attaagagga	tgctgggctc	60
tgttcttggc	ttggaagatt	ctattttaatt	gaaactctct	gttcagaaag	caataacttt	120
gtctcgttcc	tgttgggctg	aaccctaagg	tgagtgtgca	gtacagtgtg	tgtgggtgaa	180
atggagattt	ggaattgaac	tctctgcctg	taaatgttcc	ccaaataatt	gttgtgtgta	240
tgatacgtgt	ataataaaaag	tattcttgtt	agaatctga			279

<210> 19

<211> 239

<212> DNA

<213> Homo sapiens

<400> 19

ctgccagcgt	ttttgtgtgg	ctgcagtgtg	cctgggccca	gctcacgggc	agtgggtgga	60
cctaactgcc	caggcaggcg	agagctactt	ccagagcctt	ccagtgcatt	ggagggcagg	120
gctaggtgta	gcggtgtctc	ctctttgaaa	ttaagaacta	tctttcttgt	agcaaagctg	180
cacctgatga	tgctgcctct	cctctctgtg	ttgtctgggc	ccttgtttac	aagcacgcg	239

<210> 20

<211> 527

<212> DNA

<213> Homo sapiens

<400> 20

ctgaaccatt	atgggataaa	ctggtgcaaa	ttctttgcct	tctctacttc	tcactgattg	60
aacataagct	tccagggtc	ccctgatgag	gaggagcctg	tccttttcag	atggatggtc	120
atccagccac	tgagagaagc	gtgtgtggga	ccactctgcc	ctctggaaag	gagatttcag	180
ttcagcgggt	gctctcgtga	acaaaaactg	aataatgatg	ctgaacggaa	tcacatcccc	240
caatgcagga	ctactggcta	catgttctact	tgcttggaag	agcagaggtc	tgaatgatct	300
cagcatccga	taggactttc	ctaaatcaga	tactcgtcta	cagaatgaac	ccacagccaa	360
ctccatctgt	gcaaaatcag	cagcaagtcg	cattttccca	ccttcaccaa	gaggtcttat	420
gagactggca	tggcggataa	aaagttcaac	agctcttttg	gcaataacct	cagtgttgtc	480
aaagacaaaa	tccaagcatt	caaagtgttt	aaaatagtca	ctcataa		527

<210> 21

<211> 399

<212> DNA

<213> Homo sapiens

<400> 21

ctgcaatggg	tgcaagtgtc	atttcacct	agctctgact	ctccacttct	aaccagacaa	60
acagccaacc	aaccaatcaa	catgtattta	ataaccacct	atgggggtgca	aagcacaaaa	120
gggcactcat	cttgaaaagg	aaagaccaag	aatgtgctag	agtaaagaga	cagagaccag	180
accctactct	caagatcaag	agacttcagt	ctcggagaca	tctgccattt	ctctcttctt	240
aataaacctc	atttgccttt	aaaaatacat	ttgctttggg	ggcccagaat	caagaaagga	300
aactttacaa	agtaaacaga	agttactccc	cacagggagg	cagaagcaga	ttaaccccaa	360
cagcagacat	ctgcccgga	gagcaaacct	cacatctgg			399

<210> 22  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 22  
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 attgatgata caaagagagc tggaatgaaa gagctaaaac gtcacccctc cttcagtgat 120  
 gtggactggg aaaatctgca gcatcagact atgcctttca tccccagcc agatgatgaa 180  
 acagatacct cctatcttga agccaggaat actgctcagc acctgaccgt atctggattt 240  
 agtctgtagc acaaaaattt tccttttagt ctagcctcgt gttatagaat gaacttgcac 300  
 aattatatac tccttaatac tagattgac taagggggaa agatcattat ttaacctagt 360  
 tcaatgtgct tttaatgtac gttacagctt tcacagagtt aaaaggctga aaggaatata 420  
 gtcagtaatt tatcttaacc tcaaaactgt atataaatct tcaaagcttt tttcatctat 480  
 ttatcttggt tattgcactt tatgaaaact gaagcatcaa taaaattaga gg 532

<210> 23  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
 tgcaaataag ggctgctggt tcgacgacac cgcttcgtggg gtcccctggt gcttctatcc 60  
 taataccatc gacgtccctc cagaagagga gtgtgaattt tagacacttc tgcagggatc 120  
 tgccctgcac ctgacacggg gccgtcccca gcacggtgat tagtcccaga gctcgggtgc 180  
 cacctccacc ggacacctca gacacgcttc tgcag 215

<210> 24  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
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 cccaaatttc ttcctgaact cagctctgat actcagaagg tcagtctcac atcgagagat 120  
 aaggatgcga atcaggactt ggtaattggg ctcaatttcc tagtagggga agaaagagat 180  
 ggggggtagt tagtgagagt ctactgaga gtagg 215

<210> 25  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
 ttttttttct agtaagacta gatttattca ataccctagt aaaagttttg attataagta 60  
 tccaacagta taaaaagtac aaaacagatc tgtagatttc taatatatta atacaaagtg 120  
 catgactaca tacagtacat cctacaggca aagagagggt gaaggggaaa aagaagactg 180  
 tgggttaggt ctagtaataa ataaataaat acagaagtag agatgatcca tattatagta 240  
 tattctacca ccaatactgc agccaaaatg tacaaaaaaa atcatttcaa ataactcagg 300  
 aggatgataa tggttgact tttgtaattc acctcaaaga ctgtgggaga gccaaactcaa 360  
 ctactgtat agtctgtgca tatggtggct tgtagcatgt aggttttttc caaaagaagg 420  
 aaatataaaa tgttttagatt aagaactata aaactacagg gtgcctataa aaggtggctt 480  
 actccttatt gttattatac tatccaattt ttaaaatgca gtttaaaaaa 530

<210> 26  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 26  
 ccagcagttc tctggacctcc tctgggggca gggagaggcc attgggtcag gggctggacc 60  
 caggaggagt tggaatgggt gaaagatggg gagcaagttt ttaggggtaca ggggtgggcct 120  
 aagatgggtc agtagacaga tgggagcaca gagcagggca gggggtgagg tcaagtgagg 180  
 gccacaggat gtgctgaggg ctcccaggga gccctaccca ggctcacgtc ctccctggtca 240  
 ccacctgtac tgtctggggg ccacagggtg tgggcgttgc caggagcac tgggagggcc 300  
 tcggtagggt ccacctgtag ggagaggatg tcaggaccac tagcctctgg gcaagggcag 360  
 aggagg 366

<210> 27  
 <211> 331  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 241  
 <223> n = A,T,C or G

<400> 27  
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 tctgatcccc catttatcca ccccatgtgc ctcaggacta gaggtagcaa tcatacctta 120  
 taaatgactt ttgtgccttt ctgtccagt ctcaaaattt cctacacctg ccagttcttt 180  
 acatttttcc aaggaaagga aaacggaagc agggttcttg cctggtagct ccaggaccca 240  
 nctctgcagg cacccaaaga ccctctgtgt ccagcctctt ccttgagttc tcggaacctc 300  
 ctccctaatt ctcccttcct tccccacaag g 331

<210> 28  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 28  
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 tgtcaggagt tcagaagggt cctgcactcc tagaaaatca agtggaggaa aggacttggt 120  
 ctgattcaga agatattgga agctctgagt gctctgacac agattctgaa gagcagggag 180  
 accatgcccg ccccaagaaa cacaccacgg accctgacat tgataaaaaa gaaagaaaaa 240  
 agatggtcaa ggaagcccag agagagaaaa gaaaaaaca aattcctaaa catgtgaaaa 300  
 aaagaaagga gaagacagcc aagacgaaaa aaggcaaata gaatgagaac catattatgt 360  
 acagtcattt tcctcagttc cttttctcgc ctgaactctt aagctgcac tggaagatgg 420  
 cttattgggt ttaaccagat tgtcatcgtg gcaactgtct tgaagacgga ttcaaagtgt 480  
 ttcatgtaac tatgtaaaaa gctctaagct cttagagtca gatccagtca 530

<210> 29  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 412  
 <223> n = A,T,C or G

<400> 29  
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 ctgagaggca caaaacctga catgggtgtga tatagtatat aatcagtcac gggggggaaa 120  
 agaacattaa gtcttttaaaa aggcttagga agacataaac agtaaactctt tgtttttcta 180  
 ccttcctttg gacagtgtta tatttcactt tcttcctttgc aaaatgtttc caaattcatt 240  
 tgctcaggat ttattttaaga taataactta aaacaactaa cagttgttta tgctatatgc 300  
 atatcatgca tgttctactg gttcaaggac aaaattaaaa caagatcttc tctgtaaagc 360  
 aaatatattt attatgcact ttcatatata cagggatitt ttgagtacca angggataaa 420  
 ataaaaattt tacaatgtga aattcaatgt acatttttgg ctatttacat acctcaaacc 480  
 aagggaaaaa taaaaagaaa gcatttggtt gcaactacat ttgctgagaa gtgtaaatgg 540  
 aggacattaa gcaaaacaaa tatttgcata g 571

<210> 30  
 <211> 917  
 <212> DNA  
 <213> Homo sapiens

<400> 30  
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 tcattttcaaa atcacttcac ataatggtgt catcatttaa acacttaaca gtcagtgcaa 120  
 ctgccactgt aacatctagt tggacaaaac cacaaggagg gggaggagaa aatgccatca 180  
 ctattatggt aacaaacatt taattttaat ggttgctgca ctagtaaaatt tctgcagaaa 240  
 acagttttac ccgccccctt tcacagttcc aaattaatca aggatgcttt tctataatct 300  
 gatgcttagc aaatttagctc atgattcaaa ttttgccctc ttgaagcaca tatacctttt 360  
 attttaaaag tccattatag agaatttgga atatataagg tatttgaatt gcagaacacc 420  
 cctctaattc tgttaatata gcaaagacaa aacagtatca tatacatcaa gatcatactt 480  
 ttaaagtaag tttaaaggtc tcaattgccc agatattaaa tttatatatt cttctatta 540  
 aaaaatatta catttcaatt ttgtaatatt gtaacatatt ttaagatgac cagcaagacc 600  
 tagtcaattt gaaaataccc ttgcattcca tacacaagct ataccataag taataaccca 660  
 agtatatgat gtgtaaaagt tggatgaagg cataatactg aatttttttg caaatgtaaa 720  
 ctgctttcca agtaatcagc accatttttt actagactac attttaatca cttccttagc 780  
 tgcttacaac ctctacttag gcataaataa aagaatctga aattggtata tttccccttc 840  
 ctgctgtgtt aaccaaataa actatttgac ttaaagatca aagagtcttt ttcctgaagg 900  
 tttttgtttt taaatgt 917

<210> 31  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 124  
 <223> n = A,T,C or G

<400> 31  
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 cactgcaaaa gattcacaag gttagttgaa agtcattttt gccctgggtga ttcaaagctc 120  
 aaanaatttt ctagcataaa gtcttattaa aaatttttaaat caaaatatta tttgagttta 180

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agtttaataa aacaatacca ctatatatac tctcaacaac ttcattatat aatcagtcct 240
atgaggttgt acttgctttt catatcacac tgattaagga caaaaataat tttgatgtac 300
atgtaccata cactgatatg caatctacac actgatgcat ttacatacat acaaccccaa 360
cacaatg                                           367

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<210> 32
<211> 847
<212> DNA
<213> Homo sapiens

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<400> 32
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agtccctggat tttcctaata atcacaaact tccctgcttc ctcccttggt aaagaatatt 180
atatttgatt gcacaatctt tattataaat tctaaaagga gtgcagtggg aatcaacact 240
ttgaaatgaa atcgtgaaga ttaccaattt ccttcttttg ttgtttttta tgttgtattt 300
tacatagaaa aataaaccag aaagaaatga gttttaaaaa ccatttagaa ttttttttag 360
ttaatgaatt aagtaatctt aatcacagg ttttttttcc acaacatttt cactttcttt 420
aaagttatgc ttttactagt ttttctaacc cacaaacaag aacacaggag ccacttctat 480
tttccaagat tacatgtctc ttagcatata gctaagaact ctacacgcct gggcttgata 540
cctgacacgc ttttaaaagt aaaaaatcgc agaattaaaa tcaaagcagt gtttgactct 600
agagaagttg ggaggattat taagtaagta tttatgttta gctattatgt gccaaaagaa 660
aatgtcagcc tttggggatg gggggaaaga catacaacat tttaaagcca tttttttcag 720
aaaagtaata cttctgttga ttgagaaagt cgtacatagt attatctaaa agagaacagg 780
aatgttacag actgtttaaa acctggatgt tacagactaa cttactcctt aactgtgttc 840
ttatagc                                           847

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<210> 33
<211> 863
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 321, 563, 601, 858
<223> n = A,T,C or G

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<400> 33
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agctcagaga ctattgatct tttgtttcat taatatgaac aactattagt aaaaaatagc 180
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atgtcctgga gctaattcta gcttaaattt gccagtattt ctgtatgtca ttaagttttt 300
ttcctctaag gttggaataa naattttggt aatctttgca tacctgatgg catctatgtc 360
aatgctgatt gggtaattat aaattctgtg ctaatttaaa acttaatttg cctcttaagg 420
tgattgtcct ctgagtaatg attgtagtta aatgaagtat agcttgcaac tatactatca 480
catgggtcgt taagtaaaaa taaataaacc aaatttgcct gagacaggct aagatcaatc 540
ttctcatcaa accaattttt ctntaagagc aatttcactt tcagtttttag ggtggacatt 600
nttgaatgcc tcaaattaaa cgttatctat ttaatcttcc tggaatagtc tgtgaccaa 660
aaggagggtg tgatatattt aggtgtaaat atatcacata tatggtgtga tatatttggt 720
atztatatat tcagctcatt ctctgtgaag aagtccttct gactaaaatt ggtttcaaga 780
taaactaatt tctgttagta tttctactct gcctaccatg tatgcctttt tgttagaaac 840
taataaatgt atcagtcnct agc                                           863

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<210> 34  
 <211> 432  
 <212> DNA  
 <213> Homo sapiens

<400> 34  
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 tcatccaaat caagctaaaa tgtatttaag ttgattctga gagtacaggt cagtaagcct 180  
 cattatttgg aatttgagag aaggatatagg tgatcggatc tgtttcattt ataaaagggtc 240  
 cagtttttag gactagtaca ttctgtttat tttctgggtt ttatcatttt gcctaaaata 300  
 ggatataaaa gggacaaaaa ataagtagac tgtttttatg tgtgaattat atttctacta 360  
 aatgtttttg tatgactgtg ttatacttga taatatatat atatatatat atatatatca 420  
 acttggttaaa tt 432

<210> 35  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
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 gctgatgttt tggggctgga tttaggcagt ttttaaataa aagagaactt aaaatgggtg 120  
 tgtttgtcca agatgggtgat gttcctgctg tcaattagca taaacaaaag agaattctga 180  
 taccctgttg gaatgtcctc attcctctga gcttctccac tcacaggata aatgcaggag 240  
 tggttcccc tcatggacac ctgcaaagtc agagtgtggg ggctctcctg gccctgcatc 300  
 actagcaaga gcaaaagctg ctccgagtct tgtttttaga acctggtcga 350

<210> 36  
 <211> 1082  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
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 tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaatttttg tggagaaccc 180  
 gtacagatag cgctgactct ggacattgca agtatctcta gcatttcaga gagtaacatg 240  
 gactacacag ccacatata cctccgacag cgctggatgg accagcggct ggtgtttgaa 300  
 ggcaacaaga gcttcaactc ggatgcccg ctcgtggagt tctctgggt gccagatact 360  
 tacattgtgg agtccaagaa gtccttcctc catgaagtca ctgtgggaaa caggctcatc 420  
 cgcctcttct ccaatggcac ggtcctgtat gccctcagaa tcacgacaac tgttgcatgt 480  
 aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540  
 tggggctatg atggaaatga tgtggagttc acctggctga gagggaaacga ctctgtgcgt 600  
 ggactggaac acctgcggct tgctcagtag accatagagc ggtatttcac cttagtcacc 660  
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 aatgttctgt atttcatttt ggatctctct cgattcagtc cctgcaagaa cctgcattgg 780  
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 ggattgttga ttatttcaca attcaaaacc ccagtaaatgt tgatcactat tccaaactac 1020  
 tgtttccttt gatttttatg ctagccaatg tattttactg ggcatactac atgtattttt 1080  
 ga 1082

<210> 37  
 <211> 1135  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
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 tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaattttgg tggagaaccc 180  
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 aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540  
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 aatgtttctgt atttcatttt ggaaacctac gttccttcca ctttcctggg ggtgttgtcc 780  
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 acggaagatc agctttgcca gcattgaaat ttccagcgac aacgttgact acagtgactt 960  
 gacaatgaaa accagcgaca agttaaagtt tgtcttccga gaaaagatgg gcaggattgt 1020  
 tgattatttc acaattcaaa accccagtaa tgttgatcac tattccaaac tactgtttcc 1080  
 tttgattttt atgctagcca atgtatttta ctgggcatcc tacatgtatt tttga 1135

<210> 38  
 <211> 1323  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 tttgagaacc tcacagcagg atataacaaa tttctcaggc ccaattttgg tggagaaccc 180  
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 ggcaacaaga gcttcactct ggatgccgcg ctcgtggagt tcctctgggt gccagatact 360  
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 aacatggatc tgtctaaata ccccatggac acacagacat gcaagttgca gctggaaagc 540  
 tggggctatg atggaaatga tgtggagttc acctggctga gagggaaacga ctctgtgcgt 600  
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 agatcgacgc aggagacagg aaattacact agatttgtct tacagtttga gcttcggagg 720  
 aatgtttctgt atttcatttt ggaaacctac gttccttcca ctttcctggg ggtgttgtcc 780  
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 aggattgttg attatttcac aattcaaaac ccagtaatg ttgatcacta ttccaaacta 1260  
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tga

1323

&lt;210&gt; 39

&lt;211&gt; 440

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

Met	Asn	Tyr	Ser	Leu	His	Leu	Ala	Phe	Val	Cys	Leu	Ser	Leu	Phe	Thr
1				5					10					15	
Glu	Arg	Met	Cys	Ile	Gln	Gly	Ser	Gln	Phe	Asn	Val	Glu	Val	Gly	Arg
			20					25					30		
Ser	Asp	Lys	Leu	Ser	Leu	Pro	Gly	Phe	Glu	Asn	Leu	Thr	Ala	Gly	Tyr
		35					40					45			
Asn	Lys	Phe	Leu	Arg	Pro	Asn	Phe	Gly	Gly	Glu	Pro	Val	Gln	Ile	Ala
	50					55					60				
Leu	Thr	Leu	Asp	Ile	Ala	Ser	Ile	Ser	Ser	Ile	Ser	Glu	Ser	Asn	Met
65					70					75					80
Asp	Tyr	Thr	Ala	Thr	Ile	Tyr	Leu	Arg	Gln	Arg	Trp	Met	Asp	Gln	Arg
			85						90					95	
Leu	Val	Phe	Glu	Gly	Asn	Lys	Ser	Phe	Thr	Leu	Asp	Ala	Arg	Leu	Val
			100					105					110		
Glu	Phe	Leu	Trp	Val	Pro	Asp	Thr	Tyr	Ile	Val	Glu	Ser	Lys	Lys	Ser
		115					120					125			
Phe	Leu	His	Glu	Val	Thr	Val	Gly	Asn	Arg	Leu	Ile	Arg	Leu	Phe	Ser
	130					135					140				
Asn	Gly	Thr	Val	Leu	Tyr	Ala	Leu	Arg	Ile	Thr	Thr	Thr	Val	Ala	Cys
145					150					155					160
Asn	Met	Asp	Leu	Ser	Lys	Tyr	Pro	Met	Asp	Thr	Gln	Thr	Cys	Lys	Leu
			165						170					175	
Gln	Leu	Glu	Ser	Trp	Gly	Tyr	Asp	Gly	Asn	Asp	Val	Glu	Phe	Thr	Trp
			180					185					190		
Leu	Arg	Gly	Asn	Asp	Ser	Val	Arg	Gly	Leu	Glu	His	Leu	Arg	Leu	Ala
		195					200					205			
Gln	Tyr	Thr	Ile	Glu	Arg	Tyr	Phe	Thr	Leu	Val	Thr	Arg	Ser	Gln	Gln
	210					215						220			
Glu	Thr	Gly	Asn	Tyr	Thr	Arg	Leu	Val	Leu	Gln	Phe	Glu	Leu	Arg	Arg
225					230					235					240
Asn	Val	Leu	Tyr	Phe	Ile	Leu	Glu	Thr	Tyr	Val	Pro	Ser	Thr	Phe	Leu
				245					250					255	
Val	Val	Leu	Ser	Trp	Val	Ser	Phe	Trp	Ile	Ser	Leu	Asp	Ser	Val	Pro
		260					265						270		
Ala	Arg	Thr	Cys	Ile	Gly	Val	Thr	Thr	Val	Leu	Ser	Met	Thr	Thr	Leu
		275					280					285			
Met	Ile	Gly	Ser	Arg	Thr	Ser	Leu	Pro	Asn	Thr	Asn	Cys	Phe	Ile	Lys
	290					295					300				
Ala	Ile	Asp	Val	Tyr	Leu	Gly	Ile	Cys	Phe	Ser	Phe	Val	Phe	Gly	Ala
305					310					315					320
Leu	Leu	Glu	Tyr	Ala	Val	Ala	His	Tyr	Ser	Ser	Leu	Gln	Gln	Met	Ala
				325					330					335	
Ala	Lys	Asp	Arg	Gly	Thr	Thr	Lys	Glu	Val	Glu	Glu	Val	Ser	Ile	Thr
			340					345					350		
Asn	Ile	Ile	Asn	Ser	Ser	Ile	Ser	Ser	Phe	Lys	Arg	Lys	Ile	Ser	Phe
		355					360					365			

Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp Tyr Ser Asp Leu Thr  
 370 375 380  
 Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe Arg Glu Lys Met Gly  
 385 390 395 400  
 Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro Ser Asn Val Asp His  
 405 410 415  
 Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met Leu Ala Asn Val Phe  
 420 425 430  
 Tyr Trp Ala Tyr Tyr Met Tyr Phe  
 435 440

<210> 40

<211> 289

<212> PRT

<213> Homo sapiens

<400> 40

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 20 25 30  
 Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr  
 35 40 45  
 Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala  
 50 55 60  
 Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met  
 65 70 75 80  
 Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg  
 85 90 95  
 Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val  
 100 105 110  
 Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser  
 115 120 125  
 Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser  
 130 135 140  
 Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys  
 145 150 155 160  
 Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu  
 165 170 175  
 Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp  
 180 185 190  
 Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu His Leu Arg Leu Ala  
 195 200 205  
 Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln  
 210 215 220  
 Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg  
 225 230 235 240  
 Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val Pro Ser Thr Phe Leu  
 245 250 255  
 Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser Leu Asp Ser Val Pro  
 260 265 270  
 Ala Arg Thr Arg Ile Gly Asp Asn Lys Gly Ser Arg Arg Ser Gln Tyr  
 275 280 285

Tyr

<210> 41  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<400> 41  
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 Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn Leu Thr Ala Gly Tyr  
 35 40 45  
 Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu Pro Val Gln Ile Ala  
 50 55 60  
 Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile Ser Glu Ser Asn Met  
 65 70 75 80  
 Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg Trp Met Asp Gln Arg  
 85 90 95  
 Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu Asp Ala Arg Leu Val  
 100 105 110  
 Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val Glu Ser Lys Lys Ser  
 115 120 125  
 Phe Leu His Glu Val Thr Val Gly Asn Arg Leu Ile Arg Leu Phe Ser  
 130 135 140  
 Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr Thr Thr Val Ala Cys  
 145 150 155 160  
 Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr Gln Thr Cys Lys Leu  
 165 170 175  
 Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp Val Glu Phe Thr Trp  
 180 185 190  
 Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu His Leu Arg Leu Ala  
 195 200 205  
 Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val Thr Arg Ser Gln Gln  
 210 215 220  
 Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln Phe Glu Leu Arg Arg  
 225 230 235 240  
 Asn Val Leu Tyr Phe Ile Leu Asp Leu Ser Arg Phe Ser Pro Cys Lys  
 245 250 255  
 Asn Leu His Trp Gly Gln Gln Arg Lys  
 260 265

<210> 42  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8

<223> n = A,T,C or G

<400> 42

```

accaacanag cttagtaatt tctaaaaaga aaaaatgatc tttttccgac ttctaaacaa 60
gtgactatac tagcataaat cattcttcta gtaaacagc taaggtatag acattctaatt 120
aatttgggaa aacctatgat tacaagtaaa aactcagaaa tgcaaagatg ttgggtttttt 180
gtttctcagt ctgcttttagc ttttaactct ggaaacgcat gcacactgaa ctctgctcag 240
tgctaaacag tcaccagcag gttcctcagg gtttcagccc taaaatgtaa aacctggata 300
atcagtgtat gttgcaccag aatcagcatt ttttttttaa ctgcaaaaaa tgatggcttc 360
atctctgaat ttatatctct cattcttttg aacatactat agctaataa ttttatgttg 420
ctaaattgct tctatctagc atgttaaaca aagataatat actttcgatg aaagtaaatt 480
ataggaaaaa aattaactgt tttaaaaaga acttgattat gttttatgat ttcaggcaag 540
tattcatttt taacttgcta cctactttta aata 574

```

<210> 43

<211> 467

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 242, 263

<223> n = A,T,C or G

<400> 43

```

tttttttttt tttttttattg ccatcaattt attaaaataa acatgtatag caggtttcaa 60
caattgtctt gtagtttgta gtaaaaagac ataagaaaga gaaggtgtgg tttgcagcaa 120
tccgtagctg gtttctcacc ataccctgca gttctgtgag ccaaaggtct tgcagaaagt 180
taaaataaat cacaaagact gctgtcatat attaattgca taaacacctc aacattgctc 240
anagtttcat ccgttttggtt aanaaaacat tccttcaatt catctatggc attttagtg 300
gcattgtcgt ctatgaactc ttgaagaagt tctttgtatt cagtcttaga cacttgtgga 360
ttgattgtct tggaaatcac attctccaat aaggggcagc cagagcctgc gtagcagtcg 420
tgaggagagg cgcaccagcat gaggaccatc agcaacttca tgggtgag 467

```

<210> 44

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 494, 556

<223> n = A,T,C or G

<400> 44

```

tttttttttt ttttttttag ttttaaaata ttttcacttt attattatgc ttataatatt 60
attccaacag actgtattaa aggcagtgat cactaacaca gaacacgaca gggcgaagag 120
gcagccgggc cgattgcagg acgtggcctg tcgggccagg gtcgctgaca tgcacgctgg 180
tagctcatac actgctaccc tcagcacagg ctgcaggaat agggacaaga cagatgccgc 240
cggactctta gaagctattt aataaatatc atccaaaaac aaaatggaaa agaaacaaga 300
aaccctccga gcacaaccac cttaggccaa ctgaatgtaa tctagtttat tcaaccacaa 360
attgagagag aaggaaaata ttgaaacaaa caaacgaaag aaagcagttc ttaagactag 420
cagtaaataa atttatacaa cagttcgggc tgtataatat gatgaaataa atctacatct 480
tttcttattt tggngctttg aattatacat acaaacaaca attacaggga cttgttcaca 540

```

aagcatgtag gcctanaaaa aggctctctg aaaccctcaa tggcaactgg tgaacggtaa 600  
 cactgattgc cca 613

<210> 45  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 309  
 <223> n = A,T,C or G

<400> 45  
 accagaccaa gtgaatgcga caggggaatta tttcctgtgt tgataattca tgaagtagaa 60  
 cagtataatc aaaatcaatt gtatcatcat tagttttcca ctgcctcaca ctagtgagct 120  
 gtgccaaagta gtagtgtgac acctgtgttg tcattttcca catcacgtaa gagcttccaa 180  
 ggaaagccaa atcccagatg agtctcagag agggatcaat atgtccatga ttatcaggta 240  
 tgctgactat ttccaagggg tttttcagtt gcttcatttg cttgtaaagc aggtaatcct 300  
 cttgttgtnt tttctttttc tcgatgagcc gtgt 334

<210> 46  
 <211> 429  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 392  
 <223> n = A,T,C or G

<400> 46  
 acaattttnt taaacaagca gaatagcact aggcagaata aaaaattgca cagacgtatg 60  
 caattttcca agatagcatt ctttaaattc agtattcagc ttccaaagat tggttgcca 120  
 taatagactt aaacatataa tgatggctaa aaaaaataag tatacgaaaa tgtaaaaaag 180  
 gaaatgtaag tccactctca atctcataaa aggtgagagt aaggatgcta aagcaaaata 240  
 aatgtaggtt ctttttttct atttccgttt atcatgcagt ctgcttcttt gatatgcctt 300  
 agggttaccc atttaagtta gaggttgtaa tgcaatgggtg ggaatgaaaa ttgatcaaat 360  
 atacaccttg tcatttcatt tcaaattgcg gntggaaact tccaaaaaaa gggtaggcatt 420  
 gaagaaaaa 429

<210> 47  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 42  
 <223> n = A,T,C or G

<400> 47  
 acgcgaantt gtgttatgac tgatagcctt cagctacaaa angataggac tgacctgggtt 60  
 taaagtgttc tattttgtaa atcattccat ttgagtcttt ctgatgaact tggctatact 120

```

gaaatctggtt atttttagtga ggctccaaaa tgagcaaagc taggcctgat tagagtagag 180
tgactatttaa aaaacataac tttctaggag ctataaatca aagtttttaa aagatgtttg 240
gatatatttg agtattccga tcatgaaaac agaaattgcc ctgcctacta caaggacaga 300
ctgatgggaa attatgcacc tggccaactt agcttttaag cagacgatgc tgtaaaaaa 360
aacggcttct ctgatattta ttgtaagttt tagt 394

```

```

<210> 48
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 48
acaaaggaac cgaggggtga ccacctctga gatgtccttg actttgtcat agcctggggc 60
atattgagca tctctctcac agctgccttt cttatcccca ttcttgatgt agacctcctt 120
ccgagtcagc tttttctcct cctcagacac aaacagagct ttgatatcct gtgcagggag 180
cagctcttcc ttttggtgct ggcaagtggg agttggagga agcctcaaag ctcgagttgt 240
tccctcggtg caggggagac aaatgggcct gatagtctgg ccatatttca gcttattctt 300
gagcttgatc agggcaacgt catagtcata aaattcagga attcctgctt cttttttccc 360
attaatgttg tagttggggg gaaataggac tacttctatc tccaggtccc gcttctcccc 420
tcccttgatt gagtgttcct tgtcatccac agtgaaacaa tgtgctgctg tcagcacaaa 480
gtacct 486

```

```

<210> 49
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 49
acgggctgac agagaagatt cccgagagta aatcatcttt ccaatccaga ggaacaagca 60
tgtctctctg ccaagatcca tctaaactgg agtgatgtta gcagaccag cttagagttc 120
ttctttcttt ctttagccct ttgctctgga ggaagtctc cagcttcagc tcaactcaca 180
gtttctccaa gcatcaccct gggagtttcc tgagggtttt ctcataaatg agggctgcac 240
attgcctggt ctgcttcgaa gtattcaata ccgctcagta ttttaaatga agtgattcta 300
agatttggtt tgggatcaat aggaaagcat atgcagccaa ccaagatgca aatgttttga 360
aatgatatga ccaaaatttt aagtaggaaa gtcacccaaa cacttctgct ttcacttaag 420
tgtctggccc gcaatactgt aggaacaagc atgatcttgt tactgtgata ttttaaatat 480
ccacagt 487

```

```

<210> 50
<211> 460
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 415, 459
<223> n = A,T,C or G

```

```

<400> 50
acatattttg gttgaagaca ccagactgaa gtaaacagct gtgcatccaa tttattatag 60
ttttgtaagt aacaatatgt aatcaaactt ctaggtgact tgagagtggg acctcctata 120
tcattattta gcaccgttta tgacagtaac catttcagtg tattgtttat tataccactt 180
atatcaactt atttttcacc aggttaaaat tttaatttct acaaaataac attctgaatc 240
aagcacactg tatgttcagt aggttgaact atgaacactg tcatcaatgt tcagttcaaa 300

```

```

agcctgaaag tttagatcta gaagctggta aaaatgacaa tatcaatcac attaggggaa 360
ccattgttgt cttcacttaa tccatttagc actattgaaa ataagcacac caagntatat 420
gactaatata acttgaaaat tttttatact gaggggggtng 460

```

```

<210> 51
<211> 529
<212> DNA
<213> Homo sapiens

```

```

<400> 51
acacttgaaa ccaaatttct aaaacttggt tttcttaaaa aatagttggt gtaacattaa 60
accataacct aatcagtggt ttcactatgc ttccacacta gccagtcttc tcacacttct 120
tctggtttca agtctcaagg cctgacagac agaagggctt ggagattttt tttctttaca 180
attcagtcctt cagcaacttg agagctttct tcatgttggtc aagcaacaga gctgtatctg 240
cagggttcgta agcatagaga cggtttgaat atcttccagt gatatcggct ctaactgtca 300
gagatgggtc aacaaacata atcctgggga catactggcc atcaggagaa aggtgtttgt 360
cagttgtttc ataaaccaga ttgaggagga caaactgctc tgccaatttc tggatttctt 420
tattttcagc aaacactttc tttaaagctt gactgtgtgg gcactcatcc aagtgatgaa 480
taaatacatca aggggtttgtt gcttgtcttg gatttatata gagcttctt 529

```

```

<210> 52
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 52
actttgcaa gcagtaaagg atccaggaga tagcactgga tgtggtgtca tgcctgcaa 60
acatgaacgt tttcacttca gcctggagat ctgcttcaga gaaatctttg gtgttttcgc 120
ttttggcact caaaagtatg tccagaaaat cccagcgctt tttctgagta gtatcttggt 180
ttagcttata ctttaagagac tccttcgggt cctggattac tttctctgtg aactgatgaa 240
gttcttggtt aaatttagaa aagatttggc cttgagagct gaatttgaaa accaggtcgt 300
tgtgatgtag aaaattgttc atgcgctggt tggagatttt gctaagggtt aacactgctt 360
tcaggatatga gtccagggt 379

```

```

<210> 53
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 260, 284, 285, 372, 377
<223> n = A,T,C or G

```

```

<400> 53
acttttatct taaaagggtg gtagttttcc ctaaaatact tattatgtaa gggtcattag 60
acaaatgtct tgaagtagac atggaattta tgaatgggtc tttatcattt ctcttcccc 120
tttttggcat cctggcttgc ctccagtttt aggtccttta gtttgcttct gtaagcaacg 180
ggaacacctg ctgagggggc tctttccctc atgtatactt caagtaagat caagaatctt 240
ttgtgaaatt atagaaattn actatgtaaa tgcttgatgg aatnntttcc tgctagtgtg 300
gottctgaaa ggcgctttct ccatttattt aaaactaccc atgcaattaa aaggtaacct 360
gccgcgacca cnctaanggc 380

```

```

<210> 54

```

<211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
 gcgcggcgct tcactttcttc aacttccggt ccggctcgcc cagcgcgctg cgagtgcctgg 60  
 ccgaggtgca ggagggccgc gcgtggatta atccaaaaga gggatgtaaa gttcacgtgg 120  
 tcttcagcac agagcgctac aaccagagt ctttacttca ggaaggtgag ggacgtttgg 180  
 ggaaatgttc tgctcgagtg tttttcaaga atcagaaacc cagaccaacc atcaatgtaa 240  
 cttgt 245

<210> 55  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
 acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac attgtgttaa 60  
 aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120  
 tggttcagggt taaataactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180  
 gaagtgtata caagtgcatt gcaaatgagc tctttaaaat tttaaagtcca tttccctttt 240  
 agccaagcat atgtctacat ttatgatttc tttctcttat tttaaagtct cttctggttt 300  
 agtttttttaa aaagtttcat catggctgtc atcttggaaat ctagcctcca gctcaaagct 360  
 gagacttcac gcatacatat tctcctttct ggttgcattct tcacctagtt tctccaagta 420  
 ttcagagtta aatagcacia cttcttttat atgttcactt ttgtccacat gtagtggcag 480  
 tgctgctgct tcagtaggct ttctcacaca cccttttcct tctttcaaca gcagtcacca 540  
 aacgttcaca acacaa 556

<210> 56  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36, 37, 58, 113, 118, 131, 133, 162  
 <223> n = A,T,C or G

<400> 56  
 atgggccctg attacatcat tatgaactac tcaggnaac atcccaaata ccgacctngg 60  
 gaaagacttg gtccgagatg tgttcatcca tacaggctac ctcttccaga gcncaggnc 120  
 caagagctgc ntnatcacct acctggccca ggtggacccc anaggg 166

<210> 57  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 7, 452  
 <223> n = A,T,C or G

<400> 57

```

acatccncat gttcctccaa atgacgtttg gggctctgct tgccaacatt ctttattgcc 60
agctgttcag gtgtcatctt atcttcttct tctacagcct tattgtaatt cttggctaata 120
tccaacatct cttttaccac tgattcattg cgtttacaat gttcactgta gtcctgaagt 180
gtcaaaccct ccatccaact cttcttatgc aaatttagca acatcttctg ttccagttca 240
tttttccgat agttaatagt aatggagtaa taatgtctgt ttagtccatg aattaatgcc 300
tggaatagat gcttggttaa gtgaccacaga ttcgaagtgg tttgtcttgg ttcatgtcct 360
aagaccatca tattagcatt gatcaatctg aaggcatcaa taacaacctt tccttttaca 420
ctctgaatgg gatccacaac cactgccaca gntctctccg ataaggcttc aaagc 475

```

```

<210> 58
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 397
<223> n = A,T,C or G

```

```

<400> 58
actgttnatg tgctacttgc atttgtccct cttcctgtgc actaaagacc ccactcactt 60
ccctagtgtt cagcagtgga tgacctctag tcaagacctt tgcactagga tagttaatgt 120
gaaccatggc aactgatcac aacaatgtct ttcagatcag atccatttta tcctccttgt 180
tttacagcaa gggatattaa ttacctatgt tacctttccc tgggactatg aatgtgcaaa 240
attccaatgt tcatggtctc tccctttaaa cctatattct acccctttta cattatagaa 300
aggaatgctg gaaaccacaga gtccttctct tgggactctt aatgtgtatt tctaattatc 360
catgactctt aatgtgcata ttttcaattg cctaattgat ttcaattgtc taagacattt 420
caaatgtcta attggggaga actgagtctt ttatatcaag ctaatatcta gctttttatat 480
caagctaata tcttgacttc tcagcatcat agaagggggt 520

```

```

<210> 59
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 120, 153, 159, 171, 179, 184, 194, 197
<223> n = A,T,C or G

```

```

<400> 59
ctggcaggaa atgcatcaaa agacttaaag gtanagcgta ttaccctctg tcacttgcaa 60
cttgctattc gtggagatga agaattggat tctctcatca aggctacaat tgctggtggn 120
gggtgtcattc cacacatcca caaatctctg atngggaana aaggacaaca naagactgnc 180
taanggatgc ctgnatncct tggaatctca tgac 214

```

```

<210> 60
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 33

```

<223> n = A,T,C or G

<400> 60

```
gcatacaaca tggcagcagg gcctcgggaa gangggtagg aggaccgagc agcattctct 60
gtagaggaag acaggaaagg agaccctctt ggcacacatt tatggagggt tgtccctgaa 120
gagaagggca ggtgggagag gttccctggt acttaagaga aggcaccagt ggcaaagagc 180
acaatgaaga ggatgatgat aaaaacaatc acgcagataa ggacaatcat cttcacgttc 240
ttccaccaga attttcgagc caccttctgc gatgtcgtct tgaagtgctc agatgtggct 300
tccagatcct ctgtcttggt gcggagatgt tccaagtttt cccccgggc caggatccgc 360
```

<210> 61

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 56, 60, 92, 135, 176, 264, 308, 323, 345, 377, 378

<223> n = A,T,C or G

<400> 61

```
tntgggatcg tactcgatta aacagagcca cctttgttcc tgaggcaatg cataantcan 60
catttttcaa tgactgcttc tttttggaag gnttggagat gacttttatc cgcttgctga 120
ggaacacacc aatgncatca ctgttgccat agaacatctt tacagacaac atgaantgct 180
ttcgcttgct tgagtcagat atatacaatg ttttggctgt gcaatagttc tttccttcca 240
agtttagctg ctgcatttct tggncactat ttcctatccc aataaatgca cacggttgag 300
actcttgntc agaacaacca tcncgttcca tttgttcttt ttttntcttc catccactgc 360
ccataagata tacacannga ggtgggcaaa a 391
```

<210> 62

<211> 324

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 223, 291, 302, 304, 316, 317

<223> n = A,T,C or G

<400> 62

```
acaattttat ttttaacagat ttcaagagtc catttttttaa aaaatgagca ataaagaacc 60
tctatcagtg agactttctca ttttatagca aatacatttt tgcagcttaa attttcttga 120
attcatatac gcttctgtca ttttaacaaa cttccagaga aaactggtct ctatatattt 180
aagtaacaaa tttgacaaaa tacatatatta tacatatata ganctcta ataaatatta 240
aatttgaaaa aatcaaattgt gaagcagaaa ctgctataca agtatattgt ntaatatcta 300
tntnatacat taaagnnttc cggg 324
```

<210> 63

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 63

```
acaganncct tgaatatgtt gtgggtccct cattatggcc cttcattccc ttctgtgtta 60
atagtaaagc atgttgccta ataactacaa ccctgaccaa atttgggcct ggatctcatg 120
ggtcacgtgg agttttaaat acgattttta atttacttgg gtaattgagc tgaatcttta 180
gttttcagat tactttttta aacagatagg ctcttagaac aaattattaa aaacataata 240
ccccattgga ggggaatctg gattaactac ccactgttcc ccccccccc aacttttgaa 300
aaattttggc catatagaat gcatgaaaaa tcaggtatga tcttatgagg actttatagt 360
```

<210> 64

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 403, 443, 464

<223> n = A,T,C or G

<400> 64

```
nctgactgtg atgtccactt gttccctgat ttttacacat catgtcaaag ataacagctg 60
ttcccaccca ccagttcctc taagcacata ctctgctttt ctgtcaacat cccatttttg 120
ggaaaggaaa agtcatattt attcccgcac cccagttttt taacttggtc tcccagttgt 180
ccccctcttc tctgggtgta agaagggaaa ttggaaaaaa attatatata tattctcctt 240
ttaatggtgg ggggctactg gagaggagag acagcaagtc caccctaact tgttacacag 300
cacataccac aggttcttgga attctcatct tcgaacctag agaaataggt gctataaaca 360
gggaattaa gcaaatgctg gatgctatag atcttttaat tgncttaatt ttttttctat 420
tattaaacta caggctgtag atntcttagg tctcacagaa cttnatcat tttaaactga 480
cttgatatatt t 491
```

<210> 65

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 319

<223> n = A,T,C or G

<400> 65

```
accagcacac cggcgccgctc ctggactgcg ccttctacga tccaacgcat gcctggagtg 60
gaggactaga tcatcaattg aaaatgcatg atttgaacac tgatcaagaa aatcttgttg 120
ggaccatga tgcccctatc agatgtgttg aatactgtcc agaagtgaat gtgatggtca 180
ctggaagtgg ggcctagaca gctaaactgt gggatcccag aactccttgt aatgctggga 240
ccttctctca gcctgaaaag gtatataccc tctcagtgtc tggagaccgg ctgattgttg 300
gaacagcagg ccgcagagng ttggtgtggg acttacggaa catgggttac gtgcagcagc 360
gcagggagtc cagcctgaaa taccagactc gctgcatacg agcgtttcca aacaagcagg 420
gttatgtatt aagctctatt gaaggccgag tggcagttga gtatttggac ccaagccctg 480
aggt 484
```

<210> 66  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 66  
 ngaagaaagt atgggtggag gtgaaggtaa tcacagagct gctgattctc aaaacagtgg 60  
 tgaaggaaat acaggtgctg cagaatcttc tttttctcag gaggtttcta gagaacaaca 120  
 gccatcatca gcatctgaaa gacaggcccc tcgagcacct cagtcaccga gacgcccacc 180  
 acatccactt cccccaagac tgaccattca tgccccacct caggagttgg gaccaccagt 240  
 tcagagaatt cagatgaccc gaaggcagtc tgtaggacgt ggccttcagt tgactccagg 300  
 aataggtggc acgcaacagc atttttttga tgatgaagac agaacagttc caagt 355

<210> 67  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 acgacacccc tcaagaggtg gccgaagctt tcctgtcttc cctgacagag accatagaag 60  
 gagtcgatgc tgaggatggg cacagcccag gggacaaca gaagcggaag atcgctcctgg 120  
 acccttcagg ctccatgaac atctacctgg tgctagatgg atcagacagc attggggcca 180  
 gcaacttcac aggagccaaa aagtgtctag tcaacttaat tgagaaggtg gcaagttatg 240  
 gtgtgaagtc aagatatggg ctagtacat atgccacata ccccaaaatt tgggtcaaag 300  
 tgtctgaagc agacagcagt aatgcagact gggtcacgaa gcagctcaat gaaatcaatt 360  
 atgaagacca caagttgaag tcagggacta acaccaagaa ggccctccag gcagtgt 417

<210> 68  
 <211> 223  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 29  
 <223> n = A,T,C or G

<400> 68  
 cacttgcaag cttgcttaca gagacctgnt aaacaaagaa cagacagatt ctataaaatc 60  
 agttatatca acatataaag gagtgtgatt ttcagtttgt ttttttaagt aaatatgacc 120  
 aaactgacta aataagaagg caaaacaaaa aattatgctt ccttgacaag gcctttggag 180  
 taaacaaaat gctttaaggc tcctggtgaa tggggttgca agg 223

<210> 69  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

```

<400> 69
acctttttttc tctccaaagg aacagtttct aaagttttct ggggggaaaa aaaacttaca 60
tcaaattttaa accatatgtt aaactgcata ttagttgtgt tacaccaaaa aattgcctca 120
gctgatctac acaagtttca aagtcattaa tgcttgatat aaatttactc aacattaaat 180
tatctttaa at tattaattaa aaaaaaaaaact ttctaaggaa aaataaacia atgtagaccg 240
tgattatcaa aggattatta aagaatcttt accaaaaatt tcaaccctac aacctaaaac 300
cgcaaatttc tattttttaa catcagaaaa taactcttgg ttcattactt atgacccaaa 360
gtttttatct cactattcaa tatctgaaaa gtatca 396

```

```

<210> 70
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 7, 38, 327, 367
<223> n = A,T,C or G

```

```

<400> 70
accannccc acccaggcaa acagctccga catgtttngt aagttagaca agccagtga 60
agtttttttt tttttttcct ttttctttt tttgtctttt gcttaccttc ttgcttaatg 120
gaattgttat ggctaagcac atagaaggcc aaaaaaggag tttttcaaac ccagcaaata 180
aagtgccttg attctgaact gccaaaagaa aactgcactt cccctcttaa gtaaaacgaa 240
atgagtttct taggtaaatg tattcatcag cccagataaa aaaaaaacca gttatgtgag 300
cgttagtcac tgctcatttc caggaanac aaacaaaata ccagcccagc cagactcaca 360
tgtgggnata tatatataaa gcaagagagc cacaccaca ag 402

```

```

<210> 71
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 229, 292, 382
<223> n = A,T,C or G

```

```

<400> 71
accagtagag agtggcccct gcaggccact tataaacagg aagctctctc ctgagctcac 60
tgatcaacct gcccttggca cagacagaac ctaccagaaa agaacaagta caaaacacta 120
tcattatctg ttttctcaag acagtcccaa atgtccttgt gcgatcgcca caaactcagt 180
gattggccca agtcattccc ggtgcccata aacagtaact ggtgtgcanc attagaacia 240
ggggacacgg ccttgattct cttctgagca acatgaactg ggatttctgc cncctccgat 300
ctcggctgcc acctccgaag aagtcgtgac cagccacctc cacagtaaaa gattcctccc 360
gtgagtatga tttggaatgc gncct 385

```

```

<210> 72
<211> 538
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 326  
 <223> n = A,T,C or G

<400> 72  
 caattaatta acagaggtat aattgtctca ctttcagaag tgatcattta tttttattta 60  
 gcacaggtca taagaaaaat atatagaaaa ataatcaatt tcatatataa aaggattatt 120  
 tctccacctt taattattgg cctatcattt gttagtgtta tttggtcata ttattgaact 180  
 aatgtattat tccattcaaa gtctttctag atttaaaaaat gtatgcaaaa gcttaggatt 240  
 atatcatgtg taactattat agataacatc ctaaaccctt agtttagata tataattgac 300  
 tgggtgtaat ctcttttgta atctgntttg acagatttct taaattatgt tagcataatc 360  
 aaggaagatt taccttgaag cactttccaa attgatactt tcaaacttat tttaaagcag 420  
 tagaaccttt tctatgaact aagtcacatg caaaactcca acctgtaagt atacataaaa 480  
 tggacttact tattcctctc accttctcca ggcctaggaa tattcttctc tggagccc 538

<210> 73  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 9, 39  
 <223> n = A,T,C or G

<400> 73  
 actttatnna tggaattttc ttctacttgt atccatttnc cggggcttat ggacccattc 60  
 atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 120  
 acgtggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 180  
 tctgaagaat atgtaatccc gttgattgtg gaatgtggca acctgccttc cgataaattg 240  
 aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 300  
 aaaattattc agaattattt caggtatgtg ttctgtgggg tccttgccctc ttctcttaat 360  
 ttctttacga agacgaacac tgctcatttt aaaatgagca gttgg 405

<210> 74  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 34  
 <223> n = A,T,C or G

<400> 74  
 tgagccctgc acctgtttcc tgcacccctt gccnactggt tctatggcca caaggagttt 60  
 taccagtaaa aggagtttga ggtgtattat aagctgatgg aaaaataccc atgtgctgtt 120  
 cccttggtggg ttggaccctt tacgatgttc ttcatgttcc atgacccaga ctatgccaa 180  
 attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 240  
 gttggtcgag gacttgtgac cctggatggt tctaaatgga aaaagcaccg ccagattgtg 300  
 aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 360  
 cggatgatgc tgaacaaatg ggaggaacac attgcccaa actcacgtct ggagctcttt 420  
 caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 480  
 agcatccagt tggacagt 498

<210> 75  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
 agccttgac atgataactca gattcctcac ccttgcttag gagtaaaaca atatacttta 60  
 cagggtgata ataactctcca tagttatttg aagtggcttg aaaaaggcaa gattgacttt 120  
 tatgacattg gataaaatct acaaatcagc cctcgagtta ttcaatgata actgacaaac 180  
 taaattatct ccctagaaaag gaagatgaaa ggagtgagggt gtgggtttggc agaacaactg 240  
 catttcacag cttttccagt taaattggag cactgaacgt tcagatgcat accaaattat 300  
 gcatgggtcc taatcacaca tataaggctg gctaccagct ttgacacagc actgttcatc 360  
 tggccaaaca actgtgggta aaaacacatg taaaatgctt tttaacagct gatactgtat 420  
 aagacaaagc caagatgcaa aattaggctt tgattggc 458

<210> 76  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 15, 255, 283  
 <223> n = A,T,C or G

<400> 76  
 accttataacc aaaanaatgc ttattccaaa atattttttg tagctagtag ttctttcctt 60  
 ggaggttaaag aaaatacacc caaactttta attaccagga ttcagaatat ttaagagaac 120  
 aatttttagtt aagaatcaaa tatactgaga ttcaaagagg ggaaaaaaag gaaatattat 180  
 agaagacaaa ggtcaaactg gcattccaga tctggagcaa ttttgtaaag caggaaaaca 240  
 actatgacaa tctgnagctt cttagatcat tatagtgaat gtnccattt actataaggg 300  
 tttttataat ggtgtttcct aaataaagga acataaatgt 340

<210> 77  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 actccatttg tggaactcgt gtcggagtct ggtaaacagc cgaatgtctt cctcccctac 60  
 agtttcctct ccttgcatga gagcagtgat gtcctgatta aaggcattaa ttttatctat 120  
 caggaagaac attttttcat tttcgtcttc cggtatgtcg acaccatact tttgtagctc 180  
 ctctgttatt ctctggtgag tctccttgat ttgattttct aacaggggca gagattttaca 240  
 gatatgtgtg atgagctcgc tggtaagttt ttctgccagg cagggaaccg tggcctttcc 300  
 ttctccagc agatccctga aatatgggtg gttctcaaag aagatcttct ctctctgcag 360  
 ggcttcggac aggtcagct ggtcctggat ctctgtctgg ccccg 405

<210> 78  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> 8, 10

<223> n = A,T,C or G

<400> 78

```
acagcagntn tagatggctg caacaacctt cctcctaccc cagcccagaa aatattttctg 60
ccccacccca ggatccggga ccaaaataaa gagcaagcag gcccccttca ctgagggtgct 120
gggtaggggt cagtgccaca ttactgtgct ttgagaaaaga ggaaggggat ttgtttggca 180
ctttaaaaat agaggagtaa gcaggactgg agaggccaga gaagatacca aaattggcag 240
ggagagacca tttggcgcca gtcccctagg agatgggagg agggagatag gtatgagggg 300
aggcgctaag aagagtagga ggggtccact ccaagtggca ggggtgctgaa atgggctagg 360
accaacagga cactgactct aggtttatga cctgtccata cccgttccac 410
```

<210> 79

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 35, 36, 474, 479

<223> n = A,T,C or G

<400> 79

```
acagtgaaaa acaaactaat ataaagcatt ccagnngata aaaacctcct caggcttatg 60
gtttgttttc caaggaaatt atgtttcaat gtaaagtttg aaatactcca gacatacatt 120
ccatgtaggt tttgggtgcc aatgttaaaa tttcaaattt tgcattgcaag gcttagcaaa 180
gaaacactgg cagaattcca gcatttgcaa aattctaagt tttggtgaat attgtaaata 240
ttacaattgg tattagaaaag ccatgatgaa tccagaatta agagaaaacc catttcataa 300
atattttggt tgattaaaaa ataccaggct taccatgttc taaataacac aagaaaatat 360
ctttaaaaaa aaaaggactg caatttaaca gtaatctgta tatctttagc tgccattaaa 420
aaaagaaaaa agaacaacca aaaacaatga aaatgttaca actggtataa agtnaccnna 480
tgatgctccc cttacgagaa aacaaaactg tc 512
```

<210> 80

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 42, 49, 66, 68, 143, 152, 162

<223> n = A,T,C or G

<400> 80

```
tgattcccca gacctcaaat gggctaacac gcttctcttc tncagcagnc ttcctgtccg 60
tgaagntncc ttccagattg gtacatggaa ctgaaaacaa agggagcctc agctggattg 120
aaatctggag catgccacaa agncttgcac tnggcatttt cnagaagaac ccat 174
```

<210> 81

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 32, 133, 219, 234, 239, 241, 272  
 <223> n = A,T,C or G

<400> 81  
 ttgcaacaag cacattaaat taaggcctgc tngaatttct tcctcccca tcaggtaaag 60  
 tttctttgcc aataaagttt gaggaggtgg catttgaaaa tctctttaaa aaagaagtct 120  
 tcatctattc acnagaaaac tcaaaaataa ttttcattat caacacacaa actaactcaa 180  
 tctctgcttt aagtttctat tggccaattt ttctgattna tacgagaatt attntcagnt 240  
 ntagaaaatc ctggtctttg gtcattacaa gntg 274

<210> 82  
 <211> 101  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 26, 44, 74, 75, 84, 87, 101  
 <223> n = A,T,C or G

<400> 82  
 atggagaaga tcgaacctga gcctnntgag aattgcctgc tacngcctgg cagccctgcc 60  
 cgagtggccc agcnn cattt cacnagntgg gcatgattg n 101

<210> 83  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
 tattatgggg aaagataact gagaataaag ctatcatgca gatatttgca gagataaaaag 60  
 taatgcagat actgagtggg gttttgatca aactatgctt gaaagccact ctaccactag 120  
 ttacacaaac caataatttc ccttcgcagt ggaagtcagc ttgagttttt tcagggtgttt 180  
 tt 182

<210> 84  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 163, 191, 203, 222, 223, 228  
 <223> n = A,T,C or G

<400> 84  
 actgtttgta gctgcactac aacagattct taccgtctcc acaaaggcca gagattgtaa 60  
 atggtcaata ctgacttttt ttttattccc ttgactcaag acagctaact tcattttcag 120  
 aactgtttta aacctttgtg tgctggttta taaaataatg tgnngtaatcc ttgttgcttt 180  
 cctgatacca nactgtttcc cgnggttggt tagaatatat tnngttcng 229

<210> 85  
 <211> 500

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 44, 494  
 <223> n = A,T,C or G

<400> 85  
 ggggagtang tgatttatta aagcaagacg ttgaaacctt tacnttctgc agtgaagatc 60  
 aggggtgtcat tgaaagacag tggaaaccag gatgaaagtt tttacatgac acacactaca 120  
 tttcttcaat attttcacca ggacttccgc aatgaggctt cgtttctgaa gggacatctg 180  
 atccgagcat ctcttcactc ctaacttggc tgcaacagct tccagagggg catcaaattt 240  
 ggcaagactt aacttgaaca gaggttcact aatgaagaag aagtctaaca gtcagaaac 300  
 aagagctggg cagaactcgg cattggcctg gtagcagcag agggccagcg tgaccagcag 360  
 gagacacacc gacagcttca tgggtggcttg ttttgctgtg agctcagctt tcacaaacaa 420  
 tgagtgtatt ggactccacc ccaggagcct gtggagctgc agagcccagg gctatttgta 480  
 cctgcccggg cgngcgctcg 500

<210> 86  
 <211> 323  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 90, 93, 132, 180, 266, 270, 275, 279, 305, 316  
 <223> n = A,T,C or G

<400> 86  
 ccgccagtgt gctggaattc gcccttgccg cccgggcagg tactcagaag tcatttggtta 60  
 tttacaattg gggttggtg ggatgggatn tanggcggat gagccagtgc ttttgcaatg 120  
 aagatgcaat antcattgtc ctctcccact gtctcctctt tcctcaccac atggcagctn 180  
 tcatgaccca ttcccaaagg gtccaccgag tcctgaactc agcttcatca ccaacattcc 240  
 tcgccttcag ttgaattcaa cactgncaan ggagnagang caaagacttg ggtcagggag 300  
 agggngggaa acacanaaca aac 323

<210> 87  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
 gcagcattga gccacccctt tggcaggcga tacggcagct ctgtgccctt ggccagcatg 60  
 tggagtggag gagatgctgc ccctgtggtt ggaacatcct ggggtgaccc ccgacccagc 120  
 ctgcgtgggc tgtccctgt ccctatctct cactctggac ccagggtga catcctaata 180  
 aaataactgt tggattagac aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 230

<210> 88  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 31, 199, 244  
 <223> n = A,T,C or G

<400> 88  
 atgtgaccag gtctaggtct ggagtttcag nttggacact gagccaagca gacaagcaaa 60  
 gcaagccagg acacaccatc ctgccccagg cccagcttct ctctgcctt ccaacgccat 120  
 ggggagcaat ctccagcccc aactctgcct gatgcccttt atcttgggcc tcttgtctgg 180  
 aggtgtgacc accactccnt ggtctttggc cgggccccat ggatcctgct ctctggaggg 240  
 ggtntagat 249

<210> 89  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 36, 42, 166, 167, 187  
 <223> n = A,T,C or G

<400> 89  
 tgtttacact gtcaaggatg acaaggaaa tggttcntatc tntgatacca tcatcccagc 60  
 tgttcctcct cccactgacc tgcgattcac caacattggc ccagacacca tgcgtgtcac 120  
 ctgggctcca ccccatcta ttgatttaac taacttcctg gtgcggnact cacctgtgaa 180  
 aaatgangaa gatgttgacag agt 203

<210> 90  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 90  
 ctctaagggg gctggcaaca tggctcagca ggcttgcccc agagccatgg caaagaatgg 60  
 acttgtaatt tgcacccctg tgatcacctt actcctggac cagaccacca gccacacatc 120  
 cagattaaaa gccaggaagc acagcaaagc tcgagtgaga gacaaggatg gagatctgaa 180  
 gactcaaatt gaaaagctct ggacagaagt caatgccttg aaggaaattc aagccctgca 240  
 gacagtctgt ctccgaggca ctaaaagtca caagaaatgc taccttgctt cagaaggttt 300  
 gaagcatttc catgaggcca atgaagactg catttccaaa ggaggaatcc tggttatccc 360  
 caggaactcc gacgaaatca acgcccctca agactatggt aaaaggagcc tgccagggtg 420  
 caatgacttt tggctgggca tcaatgacat ggtca 455

<210> 91  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 actttgcttg ctcatatgca ttagtgcact ttataagtca ttgtatgtta ttatattccg 60  
 taggtagatg tgtaacctct tcaccttatt catggctgaa gtcacctctt ggttacagta 120  
 gcgtagcgtg gccgtgtgca tgtcctttgc gctgtgacc accaccccaa caaaccatcc 180  
 agtgacaaac catccagtgg aggtttgtcg ggcaccagcc agcgtagcag ggtcgggaaa 240  
 ggccacctgt cccactccta cgatacgcta ctataaagag aagacgaaat agtgacataa 300  
 tatattctat ttttatactc ttccctatctt ttagtgacc tgtttatgag atgctggttt 360

```
tctacccaac ggccctgcag ccagctcacg tccaggttca acccacagct acttggtttg 420
tgttcttctt catattctaa aaccattcca tttccaagca ctttcagtcc aataggtgta 480
ggaaatag 488
```

```
<210> 92
<211> 420
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 30, 33, 34, 204, 225, 319, 372, 383, 385, 390, 414, 416, 418
<223> n = A,T,C or G
```

```
<400> 92
tctccggcag gctctgcccc ggtcgtagcn agnnaaccta taatcctgac cttttttgta 60
gacaaccttg gtgctgaggt taactccatc cattgtagtg gcctgtatat caatgggacg 120
attgcatatt ttctctgggt gagctttcca gaggtctgaa attttctccc cacctttagt 180
ctgagatact ttatcatgat cganccactc cgtccactcc acgtnttgaa cccactcact 240
ggacaaagaa acattgaaat attcgccatg ctctgtctgg aacaatttga atacccgggc 300
agcagcagag cctcgatgnc caggatattc aatatggtct tccactgaag atgatggatt 360
tcctttcaca gntagaaaac ttncnagggg gtctaaatcc aaggtgcagg aagngngngc 420
```

```
<210> 93
<211> 241
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 11, 53, 168, 197, 231, 237
<223> n = A,T,C or G
```

```
<400> 93
accacgaatt ncaacatcca gatccaccac tatecctaag ggattgtaac tgngaactgt 60
gcccggtccc tgaaagccga ccaccatgca accaacgggg tgggtgcacct catcgataag 120
gtcatctcca ccatcaccaa caacatccag cagatcattg agatcganga cacctttgag 180
acccttcggg ctgctgnggc tgcacagagg ctcaacacga tgcttgaagg naacggnacg 240
t 241
```

```
<210> 94
<211> 395
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G
```

```
<400> 94
actctattnt aattctgcct ttttatactt aattctaaat ttttccctc taatttacia 60
caaattttgt gatttttata agaattctat cctccccaat tctcagattc ttctcttttc 120
```

```

tcctttatatt ctttgcttaa attcagtata agctttcttg gtatttttagg cttcatgcac 180
attcttatctt ctaaaccacca gcagttcttc agagacctaa aatccagtat aggaataact 240
gtgttagttc ttgaaaaagc attaaagaca tttttccctg aaacatacag aacatgtcat 300
gccaaatctc ttgtttacat aataaactgg taataccggt gaattgcaca tacagatttt 360
atctccaaga tagaataact taaatattaa aacgt 395

```

```

<210> 95
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 45, 47, 180, 216, 296
<223> n = A,T,C or G

```

```

<400> 95
cgaggtagac tgatngctcc ccttgggcaa tacaatacaa gaacngnggg ttttgtcaaa 60
ttggaacaag gaaacagaac cacagaaata aatacattgg ttaacatcag attagttcag 120
gttacttttt tgtaaaagtt aaagtacgag gggacttctg tattatgcta actcaagtan 180
actggaatct cctgttttct tttttttttt taaatngggt ttaatttttt ttaattggat 240
ctatcttctt ccttaacatt tcagttggag tatgtagcat ttagcaccac tggctnaaac 300
ctgt 304

```

```

<210> 96
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<400> 96
acactgtcag cagggaactgt aaacacagac aggggtcaaag tgttttctct gaacacattg 60
agttggaatc actgttttaga acacacacac ttactttttc tggctctctac cactgctgat 120
atthttctcta ggaaatatac ttttacaagt aacaaaaata aaaactctta taaatttcta 180
tttttatctg agttacagaa atgattactg aggaagatta ctcagtaatt tgtttaaaaa 240
gtaataaaat tcaacaaaca tttgctgaat agctactata tgtcaagtgc tgtgcaagg 300
attacactct gtaattgaat attattcctc aaaaaattgc acatagtaga acgctatctg 360
ggaagctatt tttttcagtt ttgatatttc tagcttatct acttccaaac taatttttat 420
ttttgctgag actaatctta atcattttct ctaatatggc aaccattata accttaattt 480
attattaacc ataccctaag aagtac 506

```

```

<210> 97
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 144, 165, 167, 171, 187, 214, 215, 228, 239
<223> n = A,T,C or G

```

```

<400> 97
atthttcttt taattacttt agagagctag ggatgcaaat gttttcagtt agaaagcctt 60
tatttacttt tggaaattga acaagaaatg catctgtctt agaaactgga gattatttga 120
tgtttaggtaa aacatgtaat tgtntctctg gcaaatttgt atcantnatt ngaaaatgag 180

```

atattangaa aaaccaattc ttcttaaate tagnnatct ttctttanaa gaacattana 240  
t 241

<210> 98  
<211> 79  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 9, 20, 22, 24, 33, 48, 54, 61  
<223> n = A,T,C or G

<400> 98  
ggcaaacana cttatgctgn ancngggttt tancaagggt ttcaaagnaa aaanccatt 60  
ngactttatg gaaaatatt 79

<210> 99  
<211> 316  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 27, 29, 32, 68, 293  
<223> n = A,T,C or G

<400> 99  
ccacatatgt aaaaccaga aagaccngnt tngcactttc actgagagtt gagtcatctg 60  
ggctgtcnac aggtgtctga cgtgtaaact tggaatcaaa ctgacttaca tcctcttcag 120  
attgcaacag aggttttaaag gggggctcca cctttcgagc cagaagttct tcccagttaa 180  
tgtgtctaaa gaatggatga gcttgaactt ctccagcgtc cccaggacca gctcccagac 240  
gagaagcagc atttcttttc agcagctttt taagcagatc tctggcttct tngtgagggt 300  
agggaggcaa attgag 316

<210> 100  
<211> 425  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 255  
<223> n = A,T,C or G

<400> 100  
accgctttca gaaagtttat atgggttatt cttcagcctc tcttttatgc ctttcgacct 60  
ctgttttatca accccaaacc aattacgtat ctggaagtta tcaataccgt ggcacaggct 120  
acttttgaca ttttaattta ttacttttg ggaattaaat ccttagtcta catgttggca 180  
gcatctttac ttggcctggg ttgcaccca atttctggac attttatagc tgagcattac 240  
atgttcttaa aggnatga aacttactca tattatgggc ctctgaattt acttaccttc 300  
aatgtgggtt atcataatga acatcatgat ttccccaaca ttcttgaaa aagtcttcca 360  
ctggtgagga aaatagcagc tgaatactat gacaacctgc ctactacaa tttctggata 420  
aaagg 425

<210> 101  
 <211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 141  
 <223> n = A,T,C or G

<400> 101  
 actgacttgg gaatgtcaaa attctttatt atgatcttcc gagtgttgtc ctgagctttg 60  
 ttggccctca actgcaggca gagaaccagg agcagggtgg cagggtctggc cctgaacagg 120  
 agctggagca agcgcatgct ngagaaaaca gaaggc 156

<210> 102  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14, 192, 194, 197, 214, 226, 227  
 <223> n = A,T,C or G

<400> 102  
 actccaggcc gggncctcagg ttatcaaaag tgcaggagct ctgatcagca tggaccactt 60  
 cttccaaaga atttccctgc tggccgtttg taggggttgt ggtaattcta taaccagtaa 120  
 tgtctggggg ggtgctcctc tcccaggaga ctgtgagcac tccagtgtca gggtttgcct 180  
 ccagatgcaa gntngtnggt ggagacaatg gtgncaccac tttgtnnaca 230

<210> 103  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14, 17, 21, 23  
 <223> n = A,T,C or G

<400> 103  
 actgtgaacc ctgnggnttc nangcgacct acctggagct ggccagtgtc gtgaaggagc 60  
 agtatccggg catcgagatc gagtcgcgcc tcggggggcac aggtgccttt gagatagaga 120  
 taaatggaca gctggtgttc tccaagctgg agaatggggg ctttccctat gagaaagatc 180  
 tcattgaggc catccgaaga gccagtaatg gagaaaccct agaaaagatc accaacagcc 240  
 gtccctccctg cgtcatcctg tgactgcaca ggactctggg ttcctgctct gttctggggg 300  
 ccaaaccctg gtctcccttt ggtcctgctg ggagctcccc ctgcctcttt cccctactta 360  
 gctccttagc aaagagaccc tggcctccac tttgcccttt ggggt 404

<210> 104  
 <211> 404  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 340, 362, 366, 391

<223> n = A,T,C or G

<400> 104

```
accaggttat ataatagtat aacactgcc aaggagcggat tatctcatct tcatcctgta 60
attccagtgt ttgtcacgtg gttgttgaat aaatgaataa agaatgagaa aaccagaagc 120
tctgatacat aatcataatg ataattatct caatgcacaa ctacgggtgg tgctgaacta 180
gaatctatat tttctgaaac tggctcctct aggatctact aatgatttaa atctaaaaga 240
tgaagttagt aaagcatcag aaaaaaaagt gggatttcct acaagtcagg acattctacg 300
tgactataat ataatctcac agaaatttaa cattaatacn ttctaagatt taattcttag 360
antctnggta aacaaagtag ctctgtgga natgattggc atca 404
```

<210> 105

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 19, 250, 258, 289

<223> n = A,T,C or G

<400> 105

```
acagcagaag ccagtctang atgggtgtgat tcaatttctg cctctagtat ttctttgtct 60
tgtttttctt tcaatttaga agtgagcatt gtgttctcag ctatcagaac tttaagctgc 120
ccactatatt gagatgccct tttagctaatt gattcctctt tcagttttag ggatcatctga 180
agttcagcat tcttttcttt taaaatctta atgtcctcaa agtattttatt ttctttttcc 240
tggatttggg gtttcagngt ggctatttcc agtttttagca tggcaattnc ctttttcaac 300
atgcaatttt catgtaagag ataata 325
```

<210> 106

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 165, 312, 347, 384, 387, 396, 398, 419

<223> n = A,T,C or G

<400> 106

```
actgtcttca atnctatgcg tgcagggtgc taccacaggc aaacagtttt ctccccattt 60
tgtagtaatg tgattttcct attagcaaaa agaggtcacc agcccctgta gacttaaggg 120
actcaagtca caggatgggg atttcctctt aatatttttt atttngttgt ttgaactctt 180
gatgcaacat tgtagagcag ggtgttcagg acctgctgtg cccaagggac tgataaagga 240
aaaagctcta tttattcttt ttgtgatttg atgcacagat gaaaaactta acacacaata 300
acagaagttg gncgttaata aatcacatcc taggctttca gcgcttncgt aagcagacga 360
catcttcagt tttctagctc ttgnagnttc aacacngnaa catcaatgat gcatatgtnc 420
agaatcagtt acaaagacca tccg 444
```

<210> 107  
 <211> 287  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 15, 23, 169, 184, 231, 248, 263, 286  
 <223> n = A,T,C or G

<400> 107  
 acctgcactc gnacntcagg cantaggcct ccacgtcatg gccaggcact ggcatgggct 60  
 ccaccacgtg caggcagttg cagtccttct gggatacatt ctggttgtaa atgtgcccac 120  
 tgatgtttct ataaggtggg acagatgcat ttgcaccgga tatcttcana actcttggtg 180  
 gctncagctg ggggcaccaa caaacacccg accacagcca ccaaagataa nagcttcatg 240  
 cttatcangc ttgctgggcc agnaaagccg gacacctaca agcccncc 287

<210> 108  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
 acatgtgcaa gaatttgga aagcagggca ttttccctca tctctcctag agggaaatata 60  
 acagcatctg tctctactgg tccacactgg actgcagaca atgtcaaaac tctggatttg 120  
 gaatgcggct gatttccttt cccctttaag gagttttcca agaatttcat aaccatcagt 180  
 tgttatattt ccagcttcct tgatgtcttt ttctataatt tcatagcagt caatgtaaat 240  
 cttaacactt tttgaggtca ctacaatatg aaccttgtga aaacttccat aaaataatgt 300  
 ctttacttct tctgtgtcaa atgtaacagt ttgcacctcg cctcttgtat ccttggttaa 360  
 gaatgataac gtcttgctag aaggatctgc aatcactcca acttgtgggt tgtagtctct 420  
 gtctgtgatt tgccaaattg caaaagggtc actgggagtt tctgggagaa gtctgaat 478

<210> 109  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 15, 134, 201, 214, 309, 312  
 <223> n = A,T,C or G

<400> 109  
 gaatttttct tctanaataa gtattctggt gacacagact attggaaga ttttcaacat 60  
 aaghtaagtc taggactggc ctccatagcat gagttgtgag taaagatctg gtctgttggt 120  
 tctccaaaag aagnttctta ctgcttgtct ctcatgagtt ttctgtttct gctttctctt 180  
 tttcatattg atatatacgg ntttttaaat ggtnattgta attaaatata tcttcatttt 240  
 tctcttttag gagatgatgt tgcattttcc tctcaagaaa atgaatatca attgttatct 300  
 tgcttttgnt gncagctttc ttatgtgcat gaactaattg ctggtgaagc cacatatttt 360  
 t 361

<210> 110  
 <211> 305  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 12, 13, 16, 110, 142, 143, 150, 161, 192, 198, 217, 223, 244, 263, 274, 285, 287

<223> n = A,T,C or G

<400> 110

```
acataatgac tnncanagtg aagctgattg gctgcggttc tggagtaaata ataagctctc 60
cgttcctgga aatccgcact acttgagtca cgtgcctggc ctaccaaata cttgccaaaa 120
ctatgtgcct tatccacact tnnaatctgn ctctcattt ntcagctgtt ggatcagaca 180
atgacattcc tntagatntg gcgatcaagc attccanacc tnggccaaact gcaaacggtg 240
cctncaagga gaaaacgaag gcnccaccaa atgnaaaaaa tgaangnccc ttgaatgtac 300
taaaa
```

<210> 111

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 341, 369

<223> n = A,T,C or G

<400> 111

```
cgggggccag cggggggtat tcagccatcg atcaaaactca aaacctggaa tgatatccac 60
tctctttttc ttaagctcag ggaaatattc caagtagaag tccagaaagt catcggctaa 120
gatgcttcgg aatttgaatt catgcacata ggccttgaga aaactgtcaa actgatcctg 180
atcaccacac aagtgggcca ggtatgagac aaagcagaaa cttttctcgt aggggggtctc 240
attataggtg tcgtccgggt caacgcctgg ttcaatcttc acgcggagct tgttgagtgg 300
gttttctctt ccagtgatgt ccatgtgctg acgcagcaga ncccgcctcg ttgcagcctc 360
caagcaggng t
```

<210> 112

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 16, 25

<223> n = A,T,C or G

<400> 112

```
acatcttagg tttttnttcc tttantgtga agaggcggtt ccaccaaccc acagctctgc 60
gtcgagtttt tactagattg ctgcaaattt catggaatct ttgctgttgt tcagtgtgcc 120
atttatggga gccaaaaatt ctagggcgct agaatgggaa caaggtagtc agccaagcac 180
aaaaacataa caaaacagga aacgccggac agaacagatg gatctagata gtagataatc 240
agaaacacca aagaaaccac acccatgatg gcagggtgaa accaggctct ttctcatcgg 300
aggactttat cagccatcag catcacttct ccccatcctt gcagctgttc ttccagactt 360
gcagtctctg cagccagcag gttgggtgct gcgattacct ccctccgcca tcgtctcggg 420
gatgcagtct ctacaagcgc aggccacctc cccaacgagt
```

<210> 113  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

<400> 113  
 gagaagacag cagagctgct ttccgcctct ttgagaccaa gatcacccaa gtcctgcact 60  
 tcaccaagga tgtcaaggcc gctgctaatac agatgcgcaa cttcctgggt cgagcctcct 120  
 gccgccttag cttggaacct gggaaagaat atttgatcat gggctctagat ggggccacct 180  
 atgacctga gggacacccc cagt 204

<210> 114  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 46, 52, 131  
 <223> n = A,T,C or G

<400> 114  
 accgcaagaa atgggacagc aacgtcattg agacttttga catcgnccgc tngacagtca 60  
 acgctgacgt gggctattac tcctggaggt gtcccaagcc cctgaagaac cgtgatgtca 120  
 tcaccctccg ntccctg 137

<210> 115  
 <211> 278  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 124, 147, 170, 209, 234  
 <223> n = A,T,C or G

<400> 115  
 gcgggcggtt ttntggactc gtcattttac agagcatgcg tggctttcac ccttggcatg 60  
 ttctccgccg gcctctcgga cctcaggcac atgcgaatga cccggagtgt ggacaacgtc 120  
 cagntcctgc cctttctcac cacggangtc aacaacctgg gctggctgan ttatggggct 180  
 ttgaagggag acgggatcct catcgtcanc aacacagtgg gtgctgcgct tcanaccctg 240  
 tatatctttg gcatatctgc attactgccc tcggaagc 278

<210> 116  
 <211> 178  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 22, 81, 96, 149, 165, 171, 176, 177  
 <223> n = A,T,C or G

<400> 116  
 acaccgtcat angtcaaaag tncagtgtg gccatcttgc atcaaagtgt ctttaaggcag 60  
 tgactggcta tcaaccacag nttctgtctc ccagntgca aacacaggat ccatgcaaca 120  
 gttctgagac catacactta gaaaccacng ggagatgcgg atcanatgca naactnnc 178

<210> 117  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13  
 <223> n = A,T,C or G

<400> 117  
 actccccaat ggnggattta ttactattaa agaaaccagg gaaaatatta attttaatat 60  
 tataacaacc tgaaaataat ggaaaagagg tttttgaatt ttttttttaa ataaacacct 120  
 tcttaagtgc atgagatggt ttgatggttt gctgcattaa aggtatttgg gcaaacaaaa 180  
 ttggagggca agtgactgca gttttgagaa tcagttttga ccttgatgat tttttgtttc 240  
 cactgtggaa ataaatgttt gtaaataagt gtaataaaaa tccctttgca ttctttctgg 300  
 accttaaagt gtagaggaaa aggctcgtga gccatttgtt tcttttgctg gttatagttg 360

<210> 118  
 <211> 125  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 23, 59, 61  
 <223> n = A,T,C or G

<400> 118  
 gcgtcgtgct atgaccggac ttngtcttga aaggggatga cagcatggga ggcaatggnt 60  
 ncacatgtaa accccacact gaaagacaag gcactctctc cacagcagcc ccaacaacta 120  
 gccct 125

<210> 119  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 104, 110, 117, 128, 142, 144, 157, 161, 223, 230, 247,  
 465, 484  
 <223> n = A,T,C or G

<400> 119  
 nacaaagaaa agcaaaaaga atttacgaag attgtgatct cttattaaat caattgttac 60  
 tgatcatgaa tgttagttag aaaatgttag gttttaactt aaanaaaatn gtattgngat 120  
 tttcaatntt atgttgaaat cngngtaata tcctgangtt nttttcccc cagaagataa 180

```

agaggataga caacctctta aaatatTTTT acaattttaat ganaaaaaagn ttaaaattct 240
caatacnaat caaacaattt aaatatTTTT agaaaaaagg aaaagtagat agtgatactg 300
agggtaaaaa aaaattgatt caattttatg gtaaaggaaa cccatgcaat ttacacatga 360
cagccttaaa tatgtctggt tttccatctg cttagcatttc agacatttta tggtcctctt 420
actcaattga taccaacaga aatatcaact tctggagtct attanatgtg ttgtcacctt 480
tctnaagctt                                     490

```

```

<210> 120
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 142, 167, 307, 347
<223> n = A,T,C or G

```

```

<400> 120
caggtacagt aaaattaaca cttccggttac aggaaatgta tgacgcaaat aatataaaat 60
taaaagggtga aaaaaagggtg acactggttt cctaagatac aatttactct ttacaaccag 120
ggtccacagg tccaggctgc anagcgggca tcaggaagca gagcctncca cctgcttctg 180
ggggacctgg taataaaaaat cagcccatga tggcgctatg gcctctcaga caccacacgc 240
tgcctaaaca cctagagctc tggaaatagt caacaggaga gtgatttcca tgggggaaat 300
tttaanaaag atgcacatgg gacaggcaat agaaagtttg ccaaggntaa atttgggtacc 360
t                                     361

```

```

<210> 121
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 360, 380, 393, 398, 401
<223> n = A,T,C or G

```

```

<400> 121
acacaaaacc ttttnacata ttggggggctt accgctccaa attgctactg atcctttaag 60
ttcacaatat agaatttctt caccaattaa gtaataaccc tcattacaaa taaagtgcac 120
ctgataacca aactcgtaag tcccatttgc agggactgct tggccattta aaggatcccc 180
tatatatgga catgtttctc tataacaggc gtcactctgag acaggtagcc atgtatgatt 240
ccgatcacia atagtatggg tggcaagagg aggtatatag aagtatcctt ttttacctt 300
ataatctact cgttcaccaa tctcatagta gggttttggt ttaccaatga gcctccatan 360
cttcaaatgt tgggtggctn ctcacaggca tcnggcanaa ngagt 405

```

```

<210> 122
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 150
<223> n = A,T,C or G

```

```

<400> 122
accccgctcc gttgncacag atcgctgtct gccactcca tcggccattc acttggcagg 60
tgcgattggc agagccccgg agagtgtaac cgtcatagca gtggaaagag atctcatcac 120
tcacattgta gtagggagac cggggccaan ta 152

```

```

<210> 123
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<400> 123
acatctgaca tatttatata gcacataaat tagggagtgc tctgaccctt gcccggtggag 60
cccaagcact gagcagggag gtgaacgccg gtccagaaaag aagggtgctgg agcccctgct 120
ctgtcctctc catcacgggg ctcccctagg gcctccccag gcctccttgg ctcagtccag 180
gtgtctgcag gaggaagggt ttgtctgcat ttagtgtctg agactgggtt tgaggaggca 240
ccagataaaa ggagatacac ttgcagctat aaagtcagct tcaaacccca gggcttgtaa 300
ttccaagagg aggggtggga ggcgaggcca tagtct 336

```

```

<210> 124
<211> 253
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 248, 253
<223> n = A,T,C or G

```

```

<400> 124
ctgcaagagc ccagatcacc cattccgggt tctactccccg cctccccaag tcagcagtc 60
tagcccaaaa ccagcccaga gcaggggtctc tctaaagggg acttgagggc ctgagcagga 120
aagactggcc ctctagcttc taccctttgt ccctgtagcc tatacagttt agaataattta 180
tttgtttaatt ttattaaaaa gctttaaaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaagntt gtn 253

```

```

<210> 125
<211> 522
<212> DNA
<213> Homo sapiens

```

```

<400> 125
acaactgcaa gtctaagata atgttcattc attcccatca taaatgtaac attctaaata 60
ggtgtcttct gatgtcatct gtcagaattt cttttaaaact ttttcttcat cttcaacatt 120
atcaaagttc atccttattc ctcttgctt gatttcggag agtttccaat ttttcaactta 180
ttaaggcagc gattgctttt gcactctctg tatttatctg ctcttcttga aaatttctct 240
ttgtcttttc gtagaaataa aacttaacag ttggataggc cctgatcca gctttcttggc 300
atgtctgagc ataagcctga cagtctactt ttccagcttt cacttttctt ttaatcatcc 360
tagccaagag ctcaaattct ggagcaaaat tctggcaagg tccacacca gtagcataga 420
aatcaatcac ccaatgattt ttcccttgta gaactttttc actgaaagtc tgagggtgtta 480
gatctgtgga tacttgaggt aaaaatccta gaccccgat tc 522

```

```

<210> 126
<211> 374

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 302  
<223> n = A,T,C or G

<400> 126  
 tttttaagat attaacttta cttttataaa tctttgtgtg aaatgaaaaa aaaaatcaag 60  
 gcatacaaat ttcattgtgt tctacatttt taaataccat cctttgtctc cgttaaaaga 120  
 ttttcatcca tttattcaaa aaccttttaa gttcaactgt ccaatttaag acagagtga 180  
 gacatttttg agtatctgaa ctaagcattg tcttgactga aacgaagtaa gaactcaatg 240  
 agagtccttg tgggcctccc aggcatgcct ttccgtagat agggacttc atctttgttg 300  
 gncatcacgc ctgctatgtc taaatgtgcc cacttaggat gagttacgaa ttctttcagg 360  
 aatgctgcag ctgt 374

<210> 127  
<211> 130  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 12, 37, 47, 69, 75, 87, 112, 115, 124  
<223> n = A,T,C or G

<400> 127  
 aaagccaaga cngccattgg cactgctatg gtaaggncac agggcancca gggccttctg 60  
 gcaaaaggng atacnaccag cactatnaac agacaggaca tggttgagag gnagnctaca 120  
 caantcctaa 130

<210> 128  
<211> 350  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 14, 16, 24, 146  
<223> n = A,T,C or G

<400> 128  
 acactgattt ccgntnaaaa gaancatcat ctttaccttg acttttcagg gaattactga 60  
 actttcttct cagaagatag ggcacagcca ttgccttggc ctcaactgaa gggctctgcat 120  
 ttgggtcttc tggctctctg ccaagnttcc cagccactcg agggagaaat atcgggaggt 180  
 ttgacttctt ccggggcttt cccgagggtc tcaccgtgag ccctgcggcc ctcaagggtg 240  
 caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca 300  
 ctgccactct gtcctccagc tctgacagct cctcatctgt ggctgttgga 350

<210> 129  
<211> 505  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 471  
 <223> n = A,T,C or G

<400> 129  
 acaataccaa agcttcataa tgctaaagaa aacccaaaaca aaagacaatg gtttacacag 60  
 ggaaataacc ctaaggcaat atgaaaacag tcataattta ttactgataa agagtaaagg 120  
 catccttccc atagaggggg ggaattcaca gggaacacta attatatcag atgaaccacg 180  
 gggatagaaa ataggcccat ttttaaaatt cattgagaaa ttattacttt ttctccacaa 240  
 ctgtgattct atacaaaata taaaccctgc aaaccttatg tgctacctga cagataaaaag 300  
 tagcaggagc cagactcttg aagcacttga gactgatttc tacaaagtcc aggaagagca 360  
 atgattccag tgtgcagtgc tgatgcattgt gtgagcctaa catgttattc agctctggtt 420  
 gcagccccat ctacatgggg ccagtttagt ttttagggag tcacagatta ngcaggcaac 480  
 cgaggggcat gatttaaaaa gcaca 505

<210> 130  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
 acaaaagagc ctgattcttt ttaattccac aaatacctag catctcaaag taacatgtaa 60  
 acaaatcttct atgctgctca atgaatcctt ccaatttcga taataaacta aatagtattg 120  
 gatctagtat atgactttca tgtgtaagtt atggttctat ccattacttt aacaatatta 180  
 ctgatgtaac agagaaaaat tttcaactat tgtacttatt taaaacaaac tgacaagttc 240  
 aagcacctgt cttcagaaaa gccagcagca tttttttttt ttttaacatac tcaaagtaag 300  
 atttggccta agcccttaat acctttctga acagccatgc aactaaacac cctcaggaga 360  
 tgttacataa gggagagaag aacatggagc aatttgcact tttccccta gataatatta 420  
 acaaggtaaa gcaaattccag atctttatga atgaatggct gtcattgtta atacacttgg 480  
 agctctataa aactagagcc actatcatat atgtttatat agatat 526

<210> 131  
 <211> 477  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
 ctgagttttc ccagcaacag atgctcctga gcaattttatt agtcaagtga cggtgctgaa 60  
 atacttttct cattacatgg aggagaacct catggatggg ggagatctgc ctagtgttac 120  
 tgatattcga agacctcggc tctacctcct tcagtggcta aaatctgata aggcccta 180  
 gatgctcttt aatgatggca cttttcagggt gaatttctac catgatcata caaaaatcat 240  
 catctgtagc caaaatgaag aataccttct cacctacatc aatgaggata ggatatctac 300  
 aactttcagg ctgacaactc tgctgatgtc tggctgttca tcagaattaa aaaattgaat 360  
 ggaatatgcc ctgaacatgc tcttaciaag atgtaactga aagacttttc gaatggaccc 420  
 tatgggactc ctcttttcca ctgtgagatc tacagggaac caaaagaat gatctag 477

<210> 132  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 10, 15, 19, 24, 87, 125, 140, 355, 390, 399  
 <223> n = A,T,C or G

<400> 132  
 accacacgan cgggnatcnt ttgnacatag tgagaccggy ctgattccca tacatgaatc 60  
 cattcatgga gtgcatttta ttagatncct gaaagtcttc atcttcctta tccacctgat 120  
 caggngcagt tgtaaacaatn cctaataatta tcttccagga gtaaactctc attctcatca 180  
 aatactgtag gaaacaaata gaattccttg tctacatctt tctgtctccc atttgcatat 240  
 aaacttcctt tcttgcatat ttctattggc ccaataagcc cagtgaatat atcttttagtg 300  
 ggatccacag cagaataata catcttagct agacacacag ggatctgcat tacnggggtc 360  
 ctacttcttt ggggacagcc cttcatatcgn gaatgtttnt gtgg 404

<210> 133  
 <211> 552  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 529  
 <223> n = A,T,C or G

<400> 133  
 accccaaatt atctctctcc tgaagtcctc aacaaacaag gacatggctg tgaatcagac 60  
 atttgggccc tgggctgtgt aatgtataca atgttactag ggaggcccc atttgaaact 120  
 acaaactca aagaaactta taggtgcata agggaagcaa ggtatacaat gccgtcctca 180  
 ttgctggctc ctgccaagca ctttaattgct agtatgttgt ccaaaaaccc agaggatcgt 240  
 ccagttttgg atgacatcat tcgacatgac ttttttttgc agggcttcac tccggacaga 300  
 ctgtcttcta gctgttgtca tacagttcca gatttccact tatcaagccc agctaagaat 360  
 ttctttaaga aagcagctgc tgctcttttt ggtggcaaaa aagacaaagc aagatatatt 420  
 gacacacata atagagtgtc taaagaagat gaagacatct acaagcttag gcatgatttg 480  
 aaaaagactt caataactca gcaaccagc aaacacaggg acagatgang agctccacca 540  
 cctaccacca ca 552

<210> 134  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
 acattgatgg gctggagagc aggggtggcag cctgttctgc acagaaccaa gaattacaga 60  
 aaaaagtcca ggagctggag aggcacaaca tctccttggg agctcagctc cgccagctgc 120  
 agacgctaatt tgctcaaaact tccaacaaag ctgcccagac cagcacttgt gttttgattc 180  
 ttcttttttc cctggctctc atcatcctgc ccagcttcag tccattccag agtcgaccag 240  
 aagctgggtc tgaggattac cagcctcacg gagtgacttc cagaaatc ctgaccacca 300  
 aggacgtaac agaaaatctg gagaccaag tggtagagtc cagactgacg gagccacctg 360  
 gagccaagga tgcaaatggc tcaacaagga cactgcttga gaagatggga ggaagccaa 420  
 gaccagtg ggcgatccgg tccgtgctgc atgcagatga gatgtgagct ggaacagacc 480  
 ttttctgggc cacttt 496

<210> 135  
 <211> 560  
 <212> DNA

<213> Homo sapiens

<400> 135

```
actgggagtg atcactaaca ccatagtaat gtctaataatt cacaggcaga tctgcttggg 60
gaagctagtt atgtgaaagg caaatagagt catcacagtag ctcaaaaggc aaccataatt 120
ctctttgggtg caggtcttgg gagcgtgatc tagattacac tgcaccattc ccaagttaat 180
cccctgaaaaa cttactctca actggagcaa atgaactttg gtcccaaata tccatctttt 240
cagtagcggtt aattatgctc tgtttccaac tgcatttcct ttccaattga attaaagtgt 300
ggcctcgttt ttagtcattt aaaattgttt tctaagtaat tgctgcctct attatggcac 360
ttcaattttg cactgtcttt tgagattcaa gaaaaatttc tattcttttt tttgcatcca 420
attgtgcctg aacttttaaa atatgtaaat gctgccatgt tccaaaccca tcgtcaagtg 480
tgtgtgttta gagctgtgca ccctagaaac aacatattgc ccatgagcag gtgcctgaac 540
acagaccctt ttgcattcac
```

<210> 136

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 407

<223> n = A,T,C or G

<400> 136

```
accagcaaat ctccattagc atttctcagg ttatcatgatc cttttcagat atgttggttg 60
attttatgta tatattgctt agaaacaaaa atccacctga tattaacaca aaccaaaaaa 120
aatcataaaa gcaagcaaat gaacaaaaaa ccctagtttt gttgtgcttt tctttcacat 180
ttcctacagg gagatttgta tatctcagat actttcaaaa tctaataagg aagtaaaatt 240
agtgccttaa ccaaacagta agataccaaa gaatcctcca tcacaagtta ctgaatcaaa 300
cttctcatga catttgcggt atattcagat ttgaagattt tttaaattta gaatttaaaa 360
caaactttag actgctgatt ttccatattt caaagactgt agctgtntgc agcatataaa 420
tgga
```

<210> 137

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 182, 293, 314, 375, 378

<223> n = A,T,C or G

<400> 137

```
tgcggggntg aaggctagca aaccgagcga tcatgtcgca caaacaatt tactattcgg 60
acaaatacga cgacgaggag tttgagtatc gacatgtcat gctgcccaag gacatagcca 120
agctggggcc taaaacccat ctgatgtctg aatctgaatg gaggaatctt ggcgatcagc 180
anagtcaggg atgggtccat tatatgatcc atgaaccaga acctcacatc ttgctgttcc 240
ggcgccact acccaagaaa ccaaagaaat gaagctggca agctactttt canctcaag 300
ctttacacag ctgnccttac ttcctaacat ctttctgata acattattat gctgccttcc 360
tgttctcact ctganatnta aaagatgttc aa
```

<210> 138

<211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 168, 172, 218, 242, 245, 266, 268, 270  
 <223> n = A,T,C or G

<400> 138  
 tgccctgtgca cctctttgct tgaaatatgg caagacttgg aaaaatgttt gcccttagaa 60  
 tctatctcac tacttttagtt agttgtctcc tttgggcctg ggcacagttc tggccctgat 120  
 ctggaacaga ctcccttttc taaaactgaa cttgaccaca tcaaaagntt gnaaaacaat 180  
 ctccatggta attaaacttg cattcaacac catatggnaa cagaagatgg caggaggata 240  
 anatncagat cttatgatct ttccangnan ggcattgtac atga 284

<210> 139  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 23, 28, 33, 67, 68, 81, 161, 168, 175, 183, 217, 248  
 <223> n = A,T,C or G

<400> 139  
 gaggaagggg ggactgaatc tancacntg acngaactag agacagccat gggcatgatc 60  
 atagacnnet ttacccgata ntggggcagc gagggcagca cgcagaccct gaccaagggg 120  
 gagctcaagg ggctgatgga gaaggagcta ccaggcttcc ngcagagnng aaaaanacaag 180  
 gangccgtgg ataaattgct caaggaccta gacgcenatg gaggatgcc aggtggactc 240  
 cagcgagnt 249

<210> 140  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 26, 27, 35, 41, 96, 319  
 <223> n = A,T,C or G

<400> 140  
 tcataatggt tggggcagct ataatnnact acaanaatca natgtttcac atctagacct 60  
 cgggcagcaa cagaggtagc cacaagaagt ttgcangtcc cattcttaaa gtcatttatg 120  
 atgctatctc tgtcatattg atcaatgcct ccatgaagag acatgcaagg ataagatgct 180  
 ctcatataat ccttaagaag accatcagca tgttcctgct tatccacaaa tataatgaca 240  
 gatcctgact cttgataatg gcctagaagc tcaagtaact tcaagaattt cttttcttct 300  
 tcaatcacia tcaattgtng ctccacatct gagcaaacca cactcctgcc tccaacttgt 360  
 acctgccccg ggcgggcgct caagggcgaa 390

<210> 141  
 <211> 420

<212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 20, 21, 23, 28, 155, 174, 221, 239, 240, 258, 265, 302, 307,  
 316, 342, 346, 374, 387, 388, 402, 418

<223> n = A,T,C or G

<400> 141

```
gacactcagg gaaaagcatn ngncaaanag agcttaaaat gcatcgccaa cggggtcacc 60
tccaaggtct tcctcgccat tcggaggtgc tccactttcc aaaggatgat tgctgaggtg 120
caggaagagt gctacagcaa gctgaatgtg cgcancatcg ccaagcggaa cccngaagcc 180
atcactgagg tcgtgcagct gcccaatcac ttctccaaca natactataa cagacttgnn 240
cgaagcctgc tggaatgnga tgaanacaca gggcagcaca atcaggagac agcctgatgg 300
anaaaantgg gcctancatg gccaggcctc ttccacatcc tngcangaca gaccactgtg 360
cccaaacaca cccnctgagc tgacttnnac aggagacgca cnaaggagcc cggcagangc 420
```

<210> 142

<211> 371

<212> DNA

<213> Homo sapiens

<400> 142

```
gggttcgaca atgctgatcc gcaattagaa gacactggta agctgtgtta cactgggctt 60
cattgaaatc ttcaaggata tagccagctc ctgctcgaag ctgggattct gtatactgct 120
tggtgaaagg aggaatttcc aaaaattcct cctcttcttc actgcttcct gtaggaccat 180
ctggcagttt ggagcggctg gccaaattgt cactggttgt ggccatggta aggagaaatg 240
cgtagccag aaacaaggtc ttgttgagag gcaaaggccc tctctgctct tccagggcag 300
agggttcacc ggtgttgtct ccactctcac aggggctcac aaactctcct gccctactt 360
gcaccaggtt t 371
```

<210> 143

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 13, 20, 41, 76, 77, 104, 110, 123, 145, 154, 165, 190, 199,  
 217, 239, 241, 247, 262, 267, 269

<223> n = A,T,C or G

<400> 143

```
ggtggctgtg atnacctttn ttagtttaca aataaaaaag ntaaaaagaa atactgtgtt 60
tagggtaagg taacannttc atctaatacag aggagagtga agangaggcn ctgccttcta 120
ggngctgtga ccttctcctt ttcgngattc ttncacacct tgggnaacat cttccccgct 180
atgctggaan tacttcggng ttctgcggtg gccatgntga acatctgatg aactgaaant 240
ncatccnaat gcacacgaag anatagncna 270
```

<210> 144

<211> 259

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 28, 167, 223

<223> n = A,T,C or G

<400> 144

```

ttctctttgc tttttataat tttaaagnaa ataacacatt taactgtatt taagtctgtg 60
caaataatcc ttcagaagaa atatccaaga ttctgtttgc agaggtcatt ttgtctctca 120
aagatgatta aatgagtttg tcttcagata aagtgtcctc gtccagnaga actcaaaagg 180
ccttcaagct gttcagtaag tgtaggttca gataagactc cgncatacga attccagctt 240
cccgtgccca ctgtacctc                                     259

```

<210> 145

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 406

<223> n = A,T,C or G

<400> 145

```

accacatnta ccatagtgtg attagtttta attttcacat gaatcaaagg tttcctttca 60
tgtctattta cagtccaatt gtgccaaact cttacttgtg tgctgactaa caaggcattt 120
aggtgtgcag catcctagag tgctccaggg cagtgtcagc gttctcggga gtaaaagggtg 180
ccacttggtg gcaatgatat tccagaatta aatgggtttt tgttgccatg gagactgcat 240
ttatataaat gtgacctgta gcttaagtta actaaaccta atgctgctgt taaaaacagt 300
ttattttaat attaaaatac agttgattag caacagcggg gctgtatttt aagagacact 360
ttattggaag tgcaatcata gttatttgtt ttcacaattt tacagngcac tctaattact 420
gatgggtgca att                                     433

```

<210> 146

<211> 576

<212> DNA

<213> Homo sapiens

<400> 146

```

acctcaggcc tgtgcacctc tttgcttgaa atatggcaag acttggaata atgtttgccc 60
ttagaatcta tctcactact ttagttagtt gtctcctttg ggcctgggca cagttctggc 120
cctgatctgg aacagactcc cttttctaaa actggacctt gaccacatca aaagtttgta 180
aaacaatctc catggttaatt aaacttgcat tcaacaccat atggtaacag aagatggcaa 240
aggataagat tcagatctta gatctttcca agtagggcat gttagatgat agaaggatta 300
gttgcaagct ggatctgagc tcaggcttgg gcatgaagga aactgtctcc catgtggttt 360
ggaagagtta ggggtccctt gagctctatt gtgaactata cgggtttcat ccaagggaatg 420
gtatgatgtg ggcataaaac cattcttcag acaactgaag atgggtcccct tctgtagcca 480
gaaacactag ctgtcctgca ttgccatttc ctttacccca ggcggcctgc agaaggaaag 540
gccataatta attaaaaggc ttaatgaagt tttgga                                     576

```

<210> 147

<211> 300

<212> DNA

<213> Homo sapiens

<400> 147

```
ccagccccc  ggaggaaggt  gggctctgaat  ctagcaccat  gacggaacta  gagacagcca  60
tgggcatgat  catagacgtc  tttacccgat  attcgggcag  cgagggcagc  acgcagaccc  120
tgaccaaggg  ggagctcaag  gtgcttatgg  agaaaggagc  taccaggctt  ctgcagagtg  180
gaaaagacaa  ggatgccgtg  gataaattgc  tcaaggacct  agacgccaat  ggagatgccc  240
aggtggactt  cagtgaattc  atcgtgttcg  tggctgcaat  cacgtctgcc  tgtcacaagt  300
```

<210> 148

<211> 371

<212> DNA

<213> Homo sapiens

<400> 148

```
acataatcct  cataatgggt  ggggcagcta  taatttacta  caagaatcag  atgtttcaca  60
tctagacctc  gggcagcaac  agaggtagcc  acaagaagtt  tgcaggtccc  attcttaaag  120
tcatatatga  tgctatctct  gtcattatga  tcaaattggc  tccatgaaga  gacatgcaag  180
gataagatgc  tctcattaaa  tccttaagaa  gaccatcagc  atgttcctgc  ttatccacaa  240
atataatgac  agatcctgac  tcttgataat  ggcctagaag  ctcaagtaac  ttcaagaatt  300
tcttttcttc  ttcaatcaca  atcacttggt  gctccacatc  tgagcaaacc  acactcctgc  360
ctccaacttg  t                                     371
```

<210> 149

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 30, 32, 527, 565

<223> n = A,T,C or G

<400> 149

```
cgaggtaacan  cactgctaaa  tttgacactn  anggaaaagc  attcgtcaaa  gagagcttaa  60
aatgcatcgc  caacggggtc  acctccaagg  tcttcctcgc  cattcggagg  tgctccactt  120
tccaaaggat  gattgctgag  gtgcaggaag  agtgctacag  caagctgaat  gtgtgcagca  180
tcgccaagcg  gaacctgaa  gccatcactg  aggtcgtcca  gctgcccaat  cacttctcca  240
acagatacta  taacagactt  gtccgaagcc  tgctggaatg  tgatgaagac  acagtcagca  300
caatcagaga  cagcctgatg  gagaaaattg  ggcctaacat  ggccagcctc  ttccacatcc  360
tgacagacaga  ccactgtgcc  caaacacacc  cacgagctga  cttcaacagg  agacgcacca  420
atgagccgca  gaagctgaaa  gtccctcctca  ggaacctccg  aggtgaggag  gactctccct  480
cccacatcaa  acgcacatcc  catgagagtg  cataaccagg  gagaggntat  tcacaacctc  540
ccaaactagt  atcatTTTTag  gggngttga  cacaccagtt  ttgag                                     585
```

<210> 150

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5, 525, 612, 627

<223> n = A,T,C or G

<400> 150

```
acttncgggt tgcacaatgc tgatccgcaa ttagaagaca ctggtaagct gtgttacact 60
gggcttcatt gaaatcttca aggatatagc cagctcctgc tcgaagctgg gattctgtat 120
actgcttggt gaaaggagga atttccaaaa attcctcctc ttcttcaactg ctccctgtag 180
gaccatctgg cagtttggag cggctggcca acttgctact ggttgtggcc atggtaagga 240
gaaatgcgta gccagaaaac aaggctctgt tgagaggcaa aggccctctc tgctcttcca 300
gggcagaggg ttcaccggtg ttgtctccac tctcacaggg gtcacaaac tctcctgcc 360
ctactgcacc aggttttact gtggcagact tgcgacctcg cttggcaggg gaccgttctt 420
cttcagaagt gataagtttt cttttgctcg agagaactcc catggaggca cgaggacttt 480
ctgtgatctt tcgggtaggg gttgtgctgc tactggaggc agtanggggtg gctggggagc 540
tgacgttact gcgccgtttc cgcttccttc caccaaattg ctaagctgat atctgctgcc 600
tttgtaagaa gnggtactgc ttcatanggg ccaagcccat ac 642
```

<210> 151

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 171, 240

<223> n = A,T,C or G

<400> 151

```
nttggacaac atcttccccg ctatgctgga attacttcgg tgttctgcgg tggccatggg 60
gaacatctga tgaactgaaa ttccatcgga atgcacagga agatatagtt gatcttcaaa 120
aatgtccttt ccaggaccac catactgggg aagttctttc gggcgcctgc naatgggctg 180
caccctgggg ctgggccgga gctctagctc tgatcatgcca tcgccactga aatcggtttn 240
cagatgatta gtctcttcat gcccgcgtcca tttttcgggt tttctccagt gttcagaaat 300
tcaaatgatt aacttctggg aa 322
```

<210> 152

<211> 262

<212> DNA

<213> Homo sapiens

<400> 152

```
acaaagtctt ctctttgctt tttataattt taaagcaa ataacacattta actgtattta 60
agtctgtgca aataatcctt cagaagaa atccaagatt ctgtttgcag aggtcatttt 120
gtctctcaaa gatgattaaa tgagttgtc tttagaataa agtgctcctg tccagcagaa 180
ctcaaaaggc cttcaagctg ttcagtaagt gtagttcaga taagactccg tcatacgaat 240
tccagcttcc cgtgccact gt 262
```

<210> 153

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 241, 264, 282

<223> n = A,T,C or G

```

<400> 153
ctcgggagta aaaggtgcca cttggtagca atgatattcc agaattaaat gggtttttgt 60
tgccatggag actgcattta tataaatgta gcctgtagct taagttaact aaacctaata 120
ctgctgttaa aaacagttta ttttaatat aaaatacagt tgattagcaa cagcgggtgct 180
gtattttaag agacacttta ttggaagtgc aatcatagtt atttgttttc acaattttac 240
ngtgcattct aattactgat gggngcaatt acttttaatc gngg 284

```

```

<210> 154
<211> 531
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 525
<223> n = A,T,C or G

```

```

<400> 154
accacccta aatttgaact cttatcaaga ggctgatgaa tctgaccatc aaataggata 60
ggatggacct ttttttgagt tcattgtata aacaaatttt ctgatttgga cttaattccc 120
aaaggattag gtctactcct gtcattcac tctttcaaag ctctgtccac tctaactttt 180
ctccagtgtc atagataggg aattgctcac tgcgtgccta gtctttcttc acttacctgg 240
cctctgatag aaacagttgc ccctctcatt tcataagggtc gaggacttgt gaccctggat 300
ggttctaaat ggaaaaagca ccgccagatt gtgaaacctg gcttcaacat cagcattctg 360
aaaatattca tcacatgat gtctgagagt gttcggatga tgctgaacaa atggggaggaa 420
cacattgccc aaaactcacg tctggagctc tttcaacatg tctccctgat gaccctggac 480
agcatcatga agtgtgcctt cagccaccag ggcagcatcc agttingacag t 531

```

```

<210> 155
<211> 353
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 243
<223> n = A,T,C or G

```

```

<400> 155
tcttgacaag actgagagag ttacatgttg ggaaaaaaaa agaagcatta acttagtaga 60
actgaaccag gagcattaag ttctgaaatt ttgaatcatc tctgaaatga agcagggtgta 120
gcctgccctc tcatcaatcc gtctgggtgc cagaactcaa gggttcagtgg acacatcccc 180
ctgttagaga ccctcatggg ctaggacttt tcatctagga tagattcaag acctttacct 240
canaattatg taaactgtga ttgtgtttta gaaaaattat tatttgctaa aaccatttaa 300
gtctttgtat atgtgtaaat gatcacaaaa atgtatttta taaaatgttc tgt 353

```

```

<210> 156
<211> 169
<212> DNA
<213> Homo sapiens

```

```

<400> 156
agtttgttct actacatttg tgggccacta gttcactttg ctgtgttgat aagcgttacc 60

```

```

accaattgca ctttctatag cctcttttac aatgttgctc acttcatcaa caacaaaagc 120
agtctcctcc gcagcctggg agtcttccat ctttctccg gcgcgtccc 169

```

```

<210> 157
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 147
<223> n = A,T,C or G

```

```

<400> 157
gttaactacc cgctccgaga cgggattgat gacgagtcct atgaggccat tttcaagccg 60
gtcatgtcca aagtaatgga gatgttccag cctagtgcgg tggctttaca gtgtgggtca 120
gactccctat ctggggatcg gttaggntgc tttaatctac tatcaaagga cacgccagt 180
gtgtggaatt tgtcaagagc tttaacctgc ctatgctgat gctgggaggg ggtgggttaca 240
ccattcgtaa cgttgcccg tgctggacat atgagacagc tgtggccctg gatacggaga 300
tcctaatga gcttccatac aatgactact ttgaatactt tggaccagat ttcaagctcc 360
acatcagtc ttccaacatg actaaccaga acacgaatga gt 402

```

```

<210> 158
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<400> 158
actttgggct ccagacttca ctgtccttag gcattgaaac catcacctgg tttgcattct 60
tcatgactga ggttaactta aaacaaaaat ggtaggaaag ctttcctatg cttcgggtaa 120
gagacaaatt tgcttttgta gaattggtgg ctgagaaagg cagacagggc ctgattaaag 180
aagacatttg tcaccactag ccaccaagtt aagttgtgga acccaaagg gacggccatg 240
gaaacgtaga tcatcagctc tgctaagtag ttagggggaa aaacatattc aaaccagtct 300
ccaaatggat cctgtgggta cagtgaatga ccactcctgc tttatttttc ctgagattgc 360
cgagaataac atggcactta tactgatggg cagatgacca gatgaacatc atcatcccaa 420
gaatatggaa ccaccgtgct tgcataata gatttttccc tgttatgtag gcattcctgc 480
catccattgg cacttggtc agcacagtta ggccaacaag gacataatag acaagtccaa 540
aacagt 546

```

```

<210> 159
<211> 145
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 63, 82, 100, 118, 120, 131, 138
<223> n = A,T,C or G

```

```

<400> 159
acttttgcta taagtttcct aaaaatatat aatacttttt tttttcaatt taaattaaat 60
ctnttgatga acaggggggg gntggcaaaa tttccaagcn ctggactgga attttganan 120
aggcatttac ngaccctnat aactt 145

```

<210> 160  
 <211> 405  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 tgtaaatcgc tgtttgatt tcctgatttt ataacagggc ggctgggttaa tatctcacac 60  
 agtttaaaaa atcagcccct aatttctcca tgtttacct tcaatctgca ggcttcttaa 120  
 agtgacagta tcccttaacc tgccaccagt gtccccctc cgcccccggt cttgtaaaaa 180  
 ggggaggaga attagccaaa cactgtaagc ttttaagaaa aacaaagttt taaacgaaat 240  
 actgctctgt ccagagggtt taaaactggt gcaattacag caaaaaggga ttctgtagct 300  
 ttaacttgta aaccacatct tttttgcact ttttttataa gcaaaaacgt gccgtttaaa 360  
 ccactggatc tatctaaatg ccgatttgag ttcgcgacac tatgt 405

<210> 161  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 33, 49  
 <223> n = A,T,C or G

<400> 161  
 tttgctttta atgaaggaca agggattaag acncatagag actggccana caaatgggaa 60  
 accgaccaga ccagcccatg accaaaatat cacaggcaga ccaccacaa atgcagaggc 120  
 ctcagagtcc acagtgggcg gttggaacct agggcccag ggaatcttc agctgcattc 180  
 cggtgtgat cggcgggcaa caggtagagg tgctggagg ggctgagtc tgattttcgg 240  
 tgtctgtcat attcgatcaa gtgtgtcata gagcttctg tttcatctcc cagttattca 300  
 aggagaggct ggtggctcca ctttcccagg aactgtgctg tgaagatctg aagacaggca 360  
 cggtctcagg caccgcttgt ctggaatgtc aatttgaaac ttaaaaagca gcgaccatcc 420  
 agtcatttat ttccctccat tcc 443

<210> 162  
 <211> 228  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 97, 147, 162, 174, 186, 213, 218  
 <223> n = A,T,C or G

<400> 162  
 tcgttatcaa aatggaagac accaaaccat tactggcttc taagctgaca gaaaaggagg 60  
 aagaaatcgt ggactagtgg agtaaatttt atgcttnctc aggggaacat gaaaaatgcg 120  
 gacagtatat tcagaaaggc tattccnagc tcaagatata tnattgtgaa ctanaaaata 180  
 tagcanaatt tgagggcctg acagacttct canatacntt caagttgt 228

<210> 163  
 <211> 580  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 225, 250, 364  
 <223> n = A,T,C or G

<400> 163  
 acccaaggct acacatcctt ctgtgaaaca gtctcacgga gactctcaga atcccaagaa 60  
 ttttcttcaa ccttcttttg ttttgattct gaagggaaca tctgatctgc tctcaatgtt 120  
 tggtcattct tcaattccaa ggctttatth ggaacagact ttgcatttca atggcaggct 180  
 cgaaggcaga tggcttctcg ggaggctctg ctttgaaagt ttgcntgtcc atcaattcta 240  
 aggctttagn tggaatagaa actttcattc tgcagggagc cttcagaaaa ccatcattat 300  
 caggagactc ttctaatttt ccatttattt tatctatttc tttttgatgc gcagccttgg 360  
 gtanacacac atccttctgt gaaacagtct cacagagact ctcagaatcc caagaacttt 420  
 cttcatagtc cttttgtttg gattctgatg ggagtatctc atctgctctc aatgtttgtt 480  
 cattcttcaa ttccaaggct ttatttgga cagacttttg catttcaatg gcaggctcga 540  
 aggcagatgg cttctcgga ggctctgctt tgaaaagtth 580

<210> 164  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16, 79, 107, 109, 116, 125, 136, 140  
 <223> n = A,T,C or G

<400> 164  
 acttatatct tttggncctt ggcttctcaa agttcacgac agacataggc actctcacag 60  
 tatcaagccc atttaccgnc acctcacacc aatactcgcc ccaccgngng ataggntctg 120  
 ctggnaactt taatgnatgn 140

<210> 165  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 156, 157, 227, 232, 260, 283, 290, 299, 304, 310, 331, 338,  
 346, 353  
 <223> n = A,T,C or G

<400> 165  
 acatggagcc actgccacca gtggtgatgg aaagcactgc cttcttactc cggaagggtc 60  
 ctttgtcata catggcagcg taagtgttaag caaactctcc tatgaacact cgctcaaacc 120  
 agcctttcag aatggcaggg actccaaacc actgcnnngg ggaactggaa tatcacaagg 180  
 tctgcggctt ccagcttctt ttgttcagcc acaatatctg ggctcanatg gncttcttta 240  
 taagccagaa cagactcggg aggatactga aagttcgcag ggncttcan ttacctgng 300  
 atgncctttn tggaatgat gggattgaag ntcattggnat aaaggnccga ctncaccacc 360  
 tccattcttt 370

<210> 166

<211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 gtcaaaagtc atgattttta tcttagttct tcattactgc attgaaaagg aaaacctgtc 60  
 tgagaaaatg cctgacagtt taatttataa ctatgggtgta agtctttgac aagaaaaaaa 120  
 aacaaacaaa cacttctttc catcagtaac actggcaatc ttcctgttaa ccactctcct 180  
 tagggatggg atctgaaaca acaatgggtca cctctgtgag attcgtttta agtgtaattc 240  
 cataatgagc agaggtgt 258

<210> 167  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 44, 106, 113, 115, 133, 147, 149, 181, 186, 188, 229, 230,  
 242, 277, 291, 315, 317, 335, 337  
 <223> n = A,T,C or G

<400> 167  
 ggctcagcaa acaccagga tctctgtaaa actgaagaac aggncaatgc caccaacaaa 60  
 tctcaaaacc tctccagcat attctcctat gattggagca catggngagc acnantgggtc 120  
 acttttaaca canctagcca gacaggngnc atttgggtta acacttcgga acccacagca 180  
 ntttanantt ctctggatgt catttcgagc acttgatatt attgggcann tttctgtatc 240  
 tngcgcttgg ttagccctga accaggagca acaggngcag cttctggagg ntgggttgaa 300  
 caatacggca agtgntngaa atgacatcca acctncngaa atgac 345

<210> 168  
 <211> 61  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 gatagtgtgg tttatggact gaggtcaaaa tctaagaagt ttcgcagacc tgacatccag 60  
 t 61

<210> 169  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 acattggtgc tataaatata aatgctactt atgaagcatg aaattaagct tcttttttct 60  
 tcaagttttt tctcttgtct agcaatctgt taggcttctg aaccaagacc aaatgtttac 120  
 gttcctctgc tgcataccaa cgttactcca aacaataaaa aatctatcat ttctgctctg 180  
 tgctgaggaa tggaaaatga aacccccacc cctgacccc taggactata cagtggaaac 240  
 tgttcattgc tgatgaatgc agcagtcacc aaaaaatata cccaatcttc cagataacct 300  
 cagtgcactt taggaaatca aaaattacct ggaagcaatt tagt 344

<210> 170  
 <211> 114

<212> DNA  
 <213> Homo sapiens

<400> 170  
 agcagtgtgt cctccatgaa taaacaggag ttctggaggc ccattctctg catcttctgc 60  
 tgattgttct tccccaattt tacttaaatt ccacacattc aggcggcggc cagt 114

<210> 171  
 <211> 150  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 79, 107  
 <223> n = A,T,C or G

<400> 171  
 actgagagca ttataatct gaccaaattc ataggcatta ttaggcttgg ctatcggaag 60  
 tttctcaggg tcttctggng acctgctgct ttgtcctccc ttctcanaag caaggcatcc 120  
 catggagacc tcccctgcag ggcttccagg 150

<210> 172  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 406  
 <223> n = A,T,C or G

<400> 172  
 atttgttttc cactgcctca cactagttag ctgtgccaa tagtagtgtg acacctgtgt 60  
 tgtcatttcc cacatcacgt aagagcttcc aaggaaagcc aaatcccaga tgagtctcag 120  
 agagggatca atatgtccat gattatcttc tggtttaggt ctacagtcaa tgtgatgggtg 180  
 gtctttgctt cccagtctgc cagaatatct ttgtgcttct ctaatcattg gctttaaagc 240  
 taatcaatgt gttggcagca tctctgtcac tcttgtttaa cacgtgaaga aatcaggtag 300  
 atttttttct gtggcattgt tttcggacct aaaatcaggt atgctgacta tttccaaggg 360  
 gtttttcagt tgcttcattt gcttgtaaag cagggaatcc tcttgntgct tttctttttc 420  
 tcgatgagcc cgtgt 435

<210> 173  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5  
 <223> n = A,T,C or G

<400> 173  
 actgntttcc cccaagtcca tgacatgtat acataattaa tggtttgcct ccttgattgt 60

```

ttttctccaac atccagacat agaggctgac caacgctttt aatgtatcca gatataacag 120
gattaaggctc tggcacatac acctctggat aaatgttggt cagataccat gtaaaatttt 180
tacctgaag gcggtgtttt atttcaaact tttttgaaag atcaccaa atgctttttgtt 240
taacaatttt tgctgcatct gtatttctcc tataaaatat ttccttgat tcatccatcc 300
agacttctgc aaggcgaaact tggtttctag caatcacctg agtgcctttt ggaaagctat 360
gagggctttt gctgcgaaaa acatgtccaa caacagagca aggcataatc tccaactgcc 420
caccacattg ccatactctg aaagacattt ctatattttc acctccccag atttccattt 480
cttcatcata gcttccaata tactcaaaat attcttttga tatggaaaaa agtcctcctg 540
caaaagtggg tgttttaatt gggtagggtt catctttcct tctttgcttc tcatgatcag 600
gaagcgactt ccaccaatg aa 622

```

```

<210> 174
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 174
acgggtgcagt tgaccactg ttggctctcc ttgcagttcc tgatatgtca tcttttagcat 60
gtggctactt acgtaatctt acctggacac tttctaactt ttgccgcaac aagaatcctg 120
cacccccgat agatgctgtt gaggcagattc ttcctacctt agttcagctc ctgcatcatg 180
atgatccaga agtggttagca gatacctgct gggctatttc ctaccttact gatggtccaa 240
atgaacgaat tggcatgggt gtgaaaacag gagttgtgcc ccaacttgtg aagcttctag 300
gagcttctga attgccaatt gtgactcctg ccctaagagc catagggaat attgtcactg 360
gt 362

```

```

<210> 175
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 7
<223> n = A,T,C or G

```

```

<400> 175
acagntnctc tactacactc agcctcttat gtgccaagtt tttctttaag caatgagaaa 60
ttgctcatgt tcttcatctt ctcaaactc cagaggccga agaaaaacac tttggctgtg 120
tctaaaactt gacacagtca atagaatgaa gaaaattaga gtagttatgt gattatttca 180
gctcttgacc tgtccctctt ggctgcctct gagtctgaat ctcccaaaga gagaaaccaa 240
tttctaagag gactggattg cagaagactc ggggacaaca tttgatccaa gatcttaaat 300
gttatattga taaccatgct cagcaatgag ctattagatt cattttggga aatctccata 360
atttcaattt gtaaactttg ttaagacctg tctacattgt tatatgtgtg tgacttgagt 420
aatgttatca acgtttttgt aaatatattac tatgtttttc tattagctaa attccaacaa 480
ttttgt 486

```

```

<210> 176
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 176
acctggcca ctcttttctt tttggctggc caatgtctcc tctgtaggct ccagaaggct 60
ctcagggatg caggcggcct cctgcagggt tgagttgcaa tgggaacaaa gacagctgtg 120

```

```

gtcccatagc accctcatct ggtgacatcc tgctactgac agtcaaaaga agccttccca 180
gatgaaattt tagtcctctg cgcagccatg ctcttcttcc agcaaaagag ccatgtgcag 240
tcgggtctgc tccccatggg ggctttgatg tgggccagc agtggatcag ccttccagac 300
acgctcaact ctgcacactc ttcctgccgc ctcaggcttt ccaggaccct cccgagcctt 360
atcagagtcc ttaccctcag ggctactgat accttgctgg gtgaccttgg acagattcac 420
ttacctggac tcagtttcat aatatgaaaa tgatagggtt g 461

```

```

<210> 177
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 177
acacattttg taattacctt ttttgttgtt ttgtagcaac catttgtaaa acattccaaa 60
taattccaca gtcctgaagc agcaatcgaa tccctttctc acttttggaa ggtgactttt 120
caccttaatg catattcccc tctccataga ggagaggaaa aggtgtaggc ctgccttacc 180
gagagccaaa cagagcccag ggagactccg ctgtgggaaa cctcattgtt ctgt 234

```

```

<210> 178
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10, 38, 42, 56, 58, 71, 77, 109
<223> n = A,T,C or G

```

```

<400> 178
gagctcggan ccctagtaac ggccgccagg gtgctggnat gngcccttgc gagecgnncg 60
cccgggcagg nactttnatc cccctcatc ttcctgtagc tcatttgtnt ctctcatttt 120
ttggcatatt tttcaagtca cacttaaaaa ctcttccatg tattcacttc tcatcacttg 180
gtctacatgc cgaacctaa gtcaggattc caaaaagatg agtatcctct caaacgcctc 240
ctaagcctct ggtatacatg actttggctg tgcacttcat ttagacttca cctttttgtt 300
tgctgttgtt ttttacta gattcctttg tcttcattaa agataatgaa agattcacat 360
cacagtgcag ctcttcgctt tgccttttcg taagtccgta gcaactgccg agagttctgg 420
tctgctaggc atgtgtgaaa tccgctttgt ggctctctgt gatttgttcc gcttaacgtt 480
tttatttgc ttatttacac atgccaaggt ggcaacgtga aaaatgtctc tgacgctatt 540
ttccgactgt aaagctgagc attcgatata agtagctgct ccaatctgtt tggccatact 600
tgccccctgg tcataggaca ctggcgtctg cctgtgattg gagagctcta ctaatgt 657

```

```

<210> 179
<211> 182
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7
<223> n = A,T,C or G

```

```

<400> 179
acaaaanctt ttaaatttta tattattttg aaactttgct ttgggtttgt ggcaccctgg 60
ccaccccatc tggctgtgac agcctctgca gtccgtgggc tggcagtttg ttgatctttt 120

```

aagtttcctt ccctaccag tccccatttt ctggtaaggt ttctaggagg tctgttaggt 180  
gt 182

<210> 180  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 180  
acacgctttt ggccccgacc aatgaggcct tcgagaagat ccctagttag actttgaacc 60  
gtatcctggg cgaccagaa gccctgagag acctgctgaa caaccacatc ttgaagtcag 120  
ctatgtgtgc tgaagccatc gttgcggggc tgtctgtaga gaccctggag ggcatgacac 180  
tggaggtggg ctgcagcggg gacatgctca ctatcaacgg gaaggcgatc atctccaata 240  
aagacatcct agccaccaac ggggtgatcc actacattga tgagctactc atcccagact 300  
cagccaagac actatttgaa ttggctgcag agtctgatgt gtccacagcc attgaccttt 360  
tcagacaagc cggcctcggc aatcatctct ctggaagtga gcggttgacc ctccctggctc 420  
ccctgaattc tgtattcaaa gatggaacct ctccaattga tgcccataca aggaatttgc 480  
ttcggaacca cataattaaa gaccagctgg cctctaagta tctgt 525

<210> 181  
<211> 444  
<212> DNA  
<213> Homo sapiens

<400> 181  
acaccacaat gtgcatcaag gagacgtgcc gattgattcc tgcagtcccg tccatttcca 60  
gagatctcag caagccactt accttcccag atggatgcac attgcctgca gggatcaccg 120  
tggttcttag tatttggggg cttcaccaca atcctgctgt ctggaaaaac ccaaaggtct 180  
ctgacccctt gaggttctct caggagaatt ctgatcagag acaccctat gcctacttac 240  
cattctcagc tggatcaagg aactgcattg ggcaggagt ttgccatgatt gagttaaaag 300  
taaccattgc cttgattctg ctccacttca gagtgactcc agaccacc accgctctta 360  
ctttcccaa ccattttatc ctcaagccca agaatgggat gtatttgac ctgaagaaac 420  
tctctgaatg ttagatctca ggg 444

<210> 182  
<211> 441  
<212> DNA  
<213> Homo sapiens

<400> 182  
acaaccttta ttgcttctcc agcattttcc agaagaatgg tgtcattaga gggccacagg 60  
ggatggggga gtaaaaaata acataaacga actgaacaga aatgcaggag ggtggcaaga 120  
ggggccgaga ttgggtgttc agggcagaga ggtggaagac caggggcagt cagtgttct 180  
tagctttcag ccaccagagt ggagaattcg tcaaccccaa ttttgccgtc cccatctttg 240  
tctccagcag ccacagcat cttggtttct ttagcagaca ggtctctggc atctggggag 300  
aagcctttta ggatgaatcc cagctcatcc tcctcgatga agccactttg tccttgtcca 360  
gcatgtgaaa caccttcttc acatcatcc cactctttt cttcaggccg accatttggg 420  
agaacttttt gtggtcgaag g 441

<210> 183  
<211> 339  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4, 10, 58, 67, 168, 210, 226, 228, 232, 238, 239, 289, 292, 297, 302, 304, 323

<223> n = A,T,C or G

<400> 183

```
tgtntcatcn taaggggatt gggctctaga tctgtcgacg gcgcattgag gatttgcnat 60
cgggttangtg gtccgcgagt catgaatttt tgctctggag cggtattgtt tgtgaagttt 120
atccaggaga gaactatgat tgtgtcgatg cgtttactgc aggaagantc acggtctcag 180
tcacggaggt gtaaggggtg actgactgan tgagacaagg gatatntngt tnttatannc 240
ttgtgatgaa cctgcctacc gtttatgtct ctttgctaag gggctctcng tncgtgnatt 300
cncncaagct gcgggggctt ccncggttct gggctctga 339
```

<210> 184

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 78, 82, 109, 126, 129, 133, 159, 193, 195, 235, 244, 245, 284, 292, 296, 318, 320, 372, 389, 391, 397, 418, 437, 455, 468, 483, 488

<223> n = A,T,C or G

<400> 184

```
atatagcaag cttgtacgac cgacacatac ggcgcatgtt gctggattgc ttatcttgtc 60
gcgcgacgtc tatataancg anactacata gtctcggaaa tccactcant ttcaagttcc 120
caaaanacng ganaaaaacc catgccttat ttaactaanc atcagctcgc ttctccttct 180
gtaaccgcgc ttntngctcc cagcctatag aagggtaaaa ccacactcgc tgcgncagtc 240
atcnataaac tgattcgccc gggactgcc gggcggcgct cganaccaat tngcanaatt 300
cacacattgc ggcgctcnan aagctctaga aggccaatcg ccatattgat ctatacatta 360
tggcgctcgt tnacacgtcg tgacgggana ncctggngta ccattaatcg ctgcacantc 420
ccttcgcagc tggggntnac aaaagccgcc catcctcca cgttgcgncc gatggcaagg 480
acnccctnat 490
```

<210> 185

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 4, 6, 13, 41, 93, 145, 159, 160, 165, 243, 302, 313, 327, 333, 350, 355

<223> n = A,T,C or G

<400> 185

```
ctnnanatag cangcttgta cgaccgacac aatacggcca ntgtgctgga ttcgcttcag 60
cgccgcccgg gcagtagcgg cgctcatcta tcngatgatg gcgcaccaat gtgggggttt 120
aaccttttta tatggctggg gacanaaagc gcggttacnn aaccnataac gagctgatgg 180
tcatttaaaa atgcttgggg ttttcccggg cttttgggga attgaaactg agtgggactt 240
canaaactgt gctactttcg cttatctaag tactcggccg caacacctag ccgaatccgc 300
```

anatatcatc acnctgggcg gcgtcancat gcntctaaag ggccaattcn cctanatgag 360  
tcttatac 368

<210> 186  
<211> 214  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 1, 37, 38, 59, 90, 98, 105, 107, 113, 181, 183, 192  
<223> n = A,T,C or G

<400> 186  
ngggagatcg cagcttgtag gactcgatc ataacgnnca atgtgctgga tcgcttcanc 60  
gccgcggcg gtctaactcg gttcggattn tgtgtgntt gtctntntta canggtgcta 120  
tccccttctt cctcctctc tgccatcctc atcctttatc tccttttttg acaagtgtca 180  
nancagacag angcagggtg gtggcaccgt tgaa 214

<210> 187  
<211> 630  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 39, 63, 70, 111, 116, 199, 205, 209, 268, 277, 442, 448,  
492, 511, 514, 520, 545, 546, 555, 596, 608, 611, 620  
<223> n = A,T,C or G

<400> 187  
cagctgggac gagtcgatca tatacggcgc atgtgttгна tcgctatcgt gtccggcgag 60  
tanttattan attactgtta tttctgctcc tactggatat gatctcttga nggcangtct 120  
gtgtcgtctg gtcacacccat gttctcaggc tgggcaaata ccttcctata atagtttatg 180  
gataatgaat gacgactang tctanaaana cgctagctaa ataacacact cagggaaaga 240  
gtcttaaata ttgtgaaggt gtttttanta tacaacnttt gtttacataa taggaaataa 300  
tttttagact tttaaacaga cacttgagcc agatttgcta atgttaccat ctatagtgtc 360  
ttgaaaatat tcctcttagt ttccaatatg aatgaatcta aaatccatct tttcaattat 420  
gcccaggccc gtggtcaatg cncctcncac acttcattaa cggattatac cttgggaaac 480  
cataatctgg cntaggacga atcgctggc ncangctaan aactgccctg tattgagggg 540  
ttatnctga ttgcnaggt gcctctccag gtccccaaag ggtcgtactg ttgaanctgg 600  
ctctaantnt ntcttgctn acaggtctcc 630

<210> 188  
<211> 441  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 2, 3, 8, 12, 25, 31, 34, 43, 74, 76, 105, 106, 122, 158,  
204, 205, 224, 225, 230, 236, 260, 261, 270, 278, 288, 289,  
297, 335, 376, 388, 397, 398, 415, 427, 432, 438  
<223> n = A,T,C or G

```

<400> 188
cnngcaanac anggtcggat tccgntgagg naanaattcc ctnatagggc tcgcccccta 60
ttcaccaaac caancngaaa ctcttgcggt caaatctaag ctatnncaca accccactct 120
gnagggtatg cgccccgccc ctgcaatgaa atcaatanca tatttgagaga cagagagata 180
gagagagaga ggttcctggc cttnnctatt ctgctcttac ttggnagatn tcaganatag 240
aaaaacctat cctaggtccn nccaatgatn gcggcttncc aatcccgnng tggccantcc 300
ccggatcgga ctaaatacaa gaagatcctc cgtctcctg ttccctccaca ctggagtccc 360
attgtatgca tgggtntttc actggctnat cataccnag gatctgtcca ccttnaactc 420
ttctctngga antccctncc c 441

```

```

<210> 189
<211> 637
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 24, 36, 45, 58, 113, 119, 147, 193, 196, 227, 330, 347,
387, 447, 450, 458, 460, 487, 489, 502, 518, 526, 535, 538,
546, 558, 560, 613, 622, 633
<223> n = A,T,C or G

```

```

<400> 189
aggnggtata taccacttg tacnactcga tcatanacgc gcatntctga atcgcttntc 60
ggccgcgatg tactgtgggc acttaagcac tgagtactgt ttgcgtcatg ccnggtcana 120
agatgctgct gcaaaggac tccaacnaaa tacactgtct tcaacaggag ttaacacctc 180
acacttggtg ganaanagaa ctactgggtg gtgatgcaca cgactgnatc catcaagtgc 240
gtttgcctgt tgactgctaa ccaaggctct ggccagtacg gcccgggcgg cgctcgaaac 300
caaacttgca aatatcatca cactggcggn cgctcagcat catctanaag gccatcgctc 360
atagtgaatc tatacatcat ggccgcnttt acactcctac tggaaaacct gcgtaccact 420
taatcgcttc acacatcccc ttctcgngtn gcttatancn aaaagccac gatgcctcca 480
cattgcncnc agatggcatg anccccttac gcgcatancc gcggtntgtg taccncangt 540
accgtntgc acgctacnct tcttccttct cctcttcccc ttcccggttc tcaccattcg 600
gggccttagg tcnatatctc gnccacccaa atntagg 637

```

```

<210> 190
<211> 653
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 29, 59, 112, 129, 134, 143, 157, 177, 180, 203, 247, 276,
306, 315, 320, 327, 334, 337, 363, 421, 424, 514, 523, 543,
571, 591, 593, 599, 610, 612, 618, 634, 637, 651, 652
<223> n = A,T,C or G

```

```

<400> 190
aggggggtata taccacttg tacgactgna tcatatacgc gcatgtctgg aatcgcttnc 60
gtggctgcca tgtattgaca ctacttctaa gaactacaaa agtgatactg angatacatt 120
acacagaang gctnacattc tcnagatcc tcatttntca tgatatgtgg acatcangan 180
cacgtggata agtgtatcta aanaatggct ttcaaaatat ttccacttta ttaaggtttg 240
acatganatt cataaaatgt cttaatacta tttctnaaaa taacatctaa tcggaaacta 300

```

```

tgccctnaact gcacnttttn tgtgtanata atcntanttg tacgcccggc ggcgccaaag 360
ccnaatctgc gattcctcac ctggcgccgc tcaacatcat ctaaaggcca atcgccctata 420
ntantctata catcctggcc gcgtttacac gtctaattgg aaaccggcgt accacttatc 480
gcttgacgca ctccccctcc cactgggtta tacnaaagcc gcncgatgcc tcccacattc 540
canctgatgc aatgaccctt gttcgcctta ncccgcggtt tgtgtaccca ntnaccacnt 600
cagcgctgcn cntcttcntt ctctctctct gccnttncgt tccctcactc nng 653

```

```

<210> 191
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 5, 21, 59, 104, 113, 234, 256, 259, 264, 284, 290, 364,
418, 427, 433, 444, 456, 466, 525, 547, 553, 562, 564, 581,
613, 617, 640, 644, 661
<223> n = A,T,C or G

```

```

<400> 191
angnggtata taccactgt ncgactcgat catatacgcg catgtcggat cggtccanc 60
gcgcccggcat gtactatata tacatcaact gtattatcat ttanatattg atnaaagaca 120
aaatcatact tccatctgct cactgatgat aattactatg atacatgatc atgtaaactg 180
atcaatataa caatggaaga tccctctgac tatgcaagcc taattttcca atncatgca 240
ctctcatagc tcaaanatnt cacngacatc ctgatgaaac tatnatacan tttccacaca 300
aatcacttcg ctttagatct ctccattatt ctgtcttttc cccctaaca actacaaatc 360
ctcntgggat gggaagaata tatatcatct actaaaaata atatataatc ccctgcanat 420
ttgtggnaaa tcnggtgtct caanagccac aggagnacaa gggggnacca actaggactt 480
ttgtatgctt atctctgtac tcgcgcacac ctaagcgatt ctgcnattct ccctggcggc 540
gtcacanctc tanaggccat cncnatatga tctatacatc ntggcgctct tacactctga 600
cgaaaaccgg gtnccantta ccctggacca tcccttcgcn ctgntataca aagccccca 660
ncc 663

```

```

<210> 192
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 31, 45, 48, 57, 63, 84, 94, 108, 125, 143, 161, 162, 174,
178, 184, 200, 201, 219, 228, 232, 239, 250, 258, 260, 262,
272, 281, 283, 291, 304, 316, 325, 329, 331, 339, 342, 347,
349, 353
<223> n = A,T,C or G

```

```

<400> 192
antttttata taccactgg tacaactcga ncctatacgg cgcanttncg gaatcanctt 60
cancggcgcc ggcatgtacc ggnatcatc atcngatgat ggcgctcnaa tgtgggtttt 120
acctnttata cggctgagat canatcgct acataacaaa nncaactgat ggtnaatnta 180
aatncggttg ggttctcccn ntctgttggg gaacttgana ctgagtngna cntocatana 240
cgtgctattn tcggctancn antcctcagc gnacacctat ngnagtgcgc naattcatcc 300
atgntggcct cgactnttcc aaaangccnt ncgcccacnt gntcgcnana cantctcggc 360
c 361

```

<210> 193  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 5, 7, 22, 101, 104, 232, 254, 282  
 <223> n = A,T,C or G

<400> 193  
 agggngnata taccaactgg tncgactcga tcctatacgc gcatttcgga ttcgcttcaa 60  
 cggcgcgggc atgtaccaa cctcaatccc aaccgtctca ntngacggg ctcaagtctg 120  
 tcacagccac cccacatttc ttttgttttg tctgccactt caaaagaatt ccaaataaga 180  
 attctgctgc agctccgtac aaggatatgg gcagcacagc acacacagag tngtgctcct 240  
 cacacttctc tggnaatgtc tcgtgaatat ctcaacagtc angaagtggg gcgttatcaa 300  
 aaacaatcag ggcc 314

<210> 194  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 6, 22, 51, 64, 96, 108, 134, 156, 220, 221, 223, 264,  
 273, 287, 302, 304, 314, 325, 336, 343, 358, 360, 361, 375,  
 390, 428, 430, 443, 444, 446, 456, 463, 468, 474, 492, 509,  
 522, 525, 530, 533, 540, 549, 550  
 <223> n = A,T,C or G

<400> 194  
 aggnngnata taccactgg tncgactcga tcctatacgc gcatgtcgga ncgctatgtg 60  
 gtcncgcaag tacctcttct gcagtgatgg tctgtntcct ctatgatnag tgatcgaata 120  
 atcatcgaat tancgaaaag ttattcgagt gatantgtg gctttagtaa tctatgctcc 180  
 atgggtgtgg cactgtcaag attaacacag aatggaagan ncngcactgc ataaaagatg 240  
 ttgtcaaatt ggggtgcgtt atcngatagc tcntcccaag aggtcantgg tgttcaggat 300  
 tncnacataa gatnttgat caccngacga ccagangata ccngtgcaaa ctgtgaancn 360  
 ngtaatctgc ctatncctgc cctctcgan gatccctcgg ggacgacgag atcattctgg 420  
 aaacagcnan tgatagtcca gttnnangatt gatgancgac ganacgcntg atanatgtct 480  
 gacgtgagat tnggatgtga atcttccent gtgtgacctg cncntaccn aanggtgcgn 540  
 ctccactcnn 550

<210> 195  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 2, 8, 34, 41, 50, 55, 56, 93, 99, 113, 123, 132, 143,  
 183, 214, 237, 244, 245, 255, 272, 293, 299, 301, 312, 335,  
 345, 346, 359, 363, 371, 379, 384, 387, 406, 412, 413, 420,

422, 434, 441

<223> n = A,T,C or G

<400> 195

```
nngcgggnat gataccaact ggtacgaact cgancctctat nacggcgctn tttcnngatc 60
tgctatgtgg tctcggcaat gtacattata acnngggcana catataatct acntctgtct 120
ttntctcccc cngagagcgc aancatctcc aaatcgggtt ctgggtcatc caatgggtctc 180
cantaatcac acaactcata tatatttatg gaangtgtct gtcacgtcc ccacgangga 240
agtnnecgtcg ctgtntgtct gtcactaggt gngtactctc cagtacttga aanctggtna 300
nggetgtctg tngtactggc cggcgccctc gaaancgaat ctgtnnatat catcacatng 360
cgnecgccga ncatcactna gggncanttc gcctatactg atcgtntgcg annccctgcgn 420
cncttacacg tcgnacggga naccggcctt cc 452
```

<210> 196

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 7, 8, 21, 52, 103, 109, 201, 205, 222, 238, 277, 370, 400, 421

<223> n = A,T,C or G

<400> 196

```
gcggggnnat gataccagct ngtagcactc gatcctataa cggcgcatgt gngtatcggc 60
tacgtgtctc ggcgatgtac atataacggg gcaacatata atnatacant ctgtcttttt 120
ctcccccgga aacggcaacc atctccaata tcgggtctggg tctccaatgg tctccaacta 180
aatcacacaa gtcaaatata nttanggaaa gtgtctgtct cntccccaga aggagtancg 240
ttagctgttg tctgtcatta ggttggtacc tccagtnaca tgaaaactgg tgagggtgtc 300
cttgtacaag ctctgcctca ccagatccta tactattagg gggccacgg ttatctatct 360
taagggtctn aaaacctgga cttcatctgc tccggcggan gaatgtcccg cttacttacg 420
ntgttccac 429
```

<210> 197

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 14, 32, 38, 53, 57, 83, 100, 103, 115, 116, 124, 141, 145, 170, 192, 195, 207, 237, 300, 318, 326, 354, 361, 369, 377, 409, 411, 416, 452, 461

<223> n = A,T,C or G

<400> 197

```
atgatacgca gctngtacga gccgtcacta tnacggcnca ttgtgtggat tcngctntga 60
tcggcgcccc ggcagtgtca tcnagagcgc atcatgggan tgnactcccc atatnntgac 120
caangttcgc gcaaggagcc naganccgat actacctgag ctgtcgtctn gttatacacg 180
tttctggcca angancaact ccacatncaa caagtgtgtg ttgaaatgtt gtttatnagt 240
ccaccaaccg gccgctctgt cccttcccca tgatccgaag ataagcttcc tgtccggaan 300
acgaacggcg tgggtgtngg acatantgat atgtgctggg caggaaagtac tcgncgcaac 360
ncgcaagcna atctgcnata tcatcacctg gcggcgctcg agctgccana ngcccnttcg 420
```

cctatatgag tctatacatt cctggccgctc tnttacactc ngacgggaaa c 471

<210> 198

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 5, 38, 55, 62, 98, 112, 125, 259, 295, 414, 436, 437,  
462, 521, 563, 574, 575, 587, 601

<223> n = A,T,C or G.

<400> 198

```
tngtncgacc gtcactatac gcccatgtgt ggatccgntc cacggcgccg ggcangtacg 60
anactatatt gatcctctga tattgaaagt tgggtctanca ataaccttta angcaaatca 120
ctcantgagt tttgaccaga agtcaccaca tcatgaatca cagtctatgg caaatgatac 180
cagtgtctct aagtcctatg ctcaaggtaa gagcatgcta ttccgtttta catttactgg 240
aatttactgt tcattcatna ttaaaatctc tagttttcat cctcaactgt ctaanaccag 300
tgtgcacaga cttaagactc tggttctctc attttctcca acagaaacat tctcagtgtc 360
tactgttcta aaaggggaatt tccgaggtgg cacttctcgg aatatcgacc ctcnngctct 420
atcaggcggt acttcnngca ctcgtcattt gggcttggtc anttgtctta tctgtccagt 480
cacttcattt taagaaaaca attgatcgct ggtcacatgt nattcattgg cagccggtgt 540
gactgctgag tctcgcgcac acnctagcaa tcggnattct ccatggngcg tcaactctcta 600
naggccatcc cctatatgat ctataatctg gcgtctttac act 643
```

<210> 199

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 6, 21, 39, 59, 87, 129, 165, 186, 223, 225, 231, 256,  
257, 261, 268, 272, 279, 287

<223> n = A,T,C or G

<400> 199

```
ncggcnggag ttgcgagttg nacgaccgat cctatacgnc gcatttctga tccgctacnt 60
gtccggcgag tctatgctat ttatttntga ttaaatcaat attttctttc tgaatattaa 120
tcttatctnt acttttatac tattgaccta gctatatgta ttganctttt tgaactccta 180
tcagtnnttt tcatgctatc gtatatcttc cacttggtac ctntngctga ntcctagata 240
tcgtaaaaca tctctnnatc ntcacacnga gnccagggnt ctgtatngaa tt 292
```

<210> 200

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 24, 67, 75, 96, 135, 155, 162, 166, 173, 181, 192, 197, 204,  
225, 230, 244, 245, 254

<223> n = A,T,C or G

<400> 200  
 atacgcaagc ttggtaccga gctnggatcc ctattaaccg gccgcaatat tctggaattc 60  
 tgcttanccgt ggtcncggcc gaagtactat gctatnttac ttttttggga tataaaatca 120  
 atatatcttct ttctnaagta tataaatctt atccnctgat cnttcnatac ctntctgaca 180  
 ntaagcttat angtatntga tctntgttga actcctatca agtgntttcn catgctatcg 240  
 tganntcttc cacnttgga ccttttacgc tgaat 275

<210> 201  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 4, 5, 16, 23, 94, 116, 121, 135, 141, 168, 171, 173, 185,  
 196, 200, 212, 223, 224, 238, 239, 269, 271  
 <223> n = A,T,C or G

<400> 201  
 cgnnnatcca gtgtanaccg tcnttacgcg cattctgacg gttcacgccc gcgtctttat 60  
 atctatctcg actgattcac ctgtcattgt aaanaattcg tgtcagctgt ctaccnctta 120  
 nacatcatct aatcnaacta ncctgataaa tttcttcaat agggatanac ntntagtaca 180  
 tacgnttcca ttgagntacn tccgcggacc cncatcgcaa acnncatgcg gtcagtcnna 240  
 gcatectcta tcttaatccg tccttacnt ntgaacgctc cact 284

<210> 202  
 <211> 448  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 93, 117, 124, 143, 144, 153, 172, 175, 186, 197, 203, 207,  
 212, 258, 266, 269, 272, 280, 284, 287, 294, 299, 301, 309,  
 311, 314, 345, 347, 358, 367, 369, 372, 378, 386, 388, 390,  
 402, 415, 416, 432, 437, 439, 446  
 <223> n = A,T,C or G

<400> 202  
 atgatacgca agcttgtagc actcggatca tataacggcc gcaatgtgct ggaattccgc 60  
 ttcgacggac gccgggcatg tacttttata atnctactcc tcagaccttg catctcnacc 120  
 gctnggtcca gtttgtaaaa acnnacttcc gtngtgcagc cctgggtctg ancantctct 180  
 atcacnctct atcctcnat ccncaanact anatcgctg aattcatatt tattcatttt 240  
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 natctcgca ngcntgaaac gattactctg tcgcgaaccc tctangntga attctgcnaa 360  
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<210> 203  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 18, 29, 48, 52, 71, 88, 91, 104, 109, 131, 143, 196, 201, 213, 248, 254, 261, 287, 291, 298, 303

<223> n = A,T,C or G

<400> 203

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tttcccaaaa nacgggaaaa ccnaagcctt atttaactaa ctatctgctc gcttctcgct 180
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aanttcacta ctggcggcgc c 321
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<210> 204

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 1, 5, 119, 137, 287, 289, 290, 326, 348, 355

<223> n = A,T,C or G

<400> 204

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acttgctcgg gccaaagtatc tataaagcaa actatcacag ttctgaaaagt ccatctcant 120
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ccagtcatcg ataactgaat cgcccggtac tgcccgggcg gcgctcnann ccaaactctgc 300
agatatcaca cactggcggc gctcancatg ctctagaagg ccaattcncc tatantgatt 360
ctattacaa 369
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<210> 205

<211> 2996

<212> DNA

<213> Homo sapiens

<400> 205

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cctacaccct ggacaggac agtctctatg tcaatggttt cacacagcg agctctgtgc 180
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<210> 206

<211> 914

<212> PRT

<213> Homo sapiens

<400> 206

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 20          25          30
Asn Leu Val Pro Arg Leu Pro Ala Leu Ser Trp Cys Tyr Ser Leu Ser
 35          40          45
Thr Ser Pro Ser Pro Thr Cys Gly Met Arg Arg Thr Cys Ser Thr Leu
 50          55          60
Ala Pro Gly Ser Ser Thr Pro Arg Arg Gly Ser Phe Arg Ala Trp Ser
 65          70          75          80
Leu Phe Lys Ser Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu
 85          90          95

```

Thr	Leu	Leu	Arg	Pro	Glu	Lys	Asp	Gly	Thr	Ala	Thr	Gly	Val	Asp	Ala	
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Ile	Cys	Thr	His	His	Pro	Asp	Pro	Lys	Ser	Pro	Arg	Leu	Asp	Arg	Glu	
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Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	His	Asn	Ile	Thr	Glu	Leu	
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Gly	Pro	Tyr	Ala	Leu	Asp	Asn	Asp	Ser	Leu	Phe	Val	Asn	Gly	Phe	Thr	
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His	Arg	Ser	Ser	Val	Ser	Thr	Thr	Ser	Thr	Pro	Gly	Thr	Pro	Thr	Val	
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Tyr	Leu	Gly	Ala	Ser	Lys	Thr	Pro	Ala	Ser	Ile	Phe	Gly	Pro	Ser	Ala	
			180					185					190			
Ala	Ser	His	Leu	Leu	Ile	Leu	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	
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Leu	Arg	Tyr	Glu	Glu	Asn	Met	Trp	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	
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Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Arg	Pro	Leu	Phe	Lys	Asn	Thr	
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Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	
				245				250						255		
Glu	Lys	Asp	Gly	Glu	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	
			260					265					270			
Pro	Asp	Pro	Thr	Gly	Pro	Gly	Leu	Asp	Arg	Glu	Gln	Leu	Tyr	Leu	Glu	
			275				280					285				
Leu	Ser	Gln	Leu	Thr	His	Ser	Ile	Thr	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	
		290				295					300					
Asp	Arg	Asp	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser	Val	
305					310				315						320	
Pro	Thr	Thr	Ser	Thr	Gly	Val	Val	Ser	Glu	Glu	Pro	Phe	Thr	Leu	Asn	
				325					330					335		
Phe	Thr	Ile	Asn	Asn	Leu	Arg	Tyr	Met	Ala	Asp	Met	Gly	Gln	Pro	Gly	
			340					345					350			
Ser	Leu	Lys	Phe	Asn	Ile	Thr	Asp	Asn	Val	Met	Lys	His	Leu	Leu	Ser	
		355					360					365				
Pro	Leu	Phe	Gln	Arg	Ser	Ser	Leu	Gly	Ala	Arg	Tyr	Thr	Gly	Cys	Arg	
		370				375					380					
Val	Ile	Ala	Leu	Arg	Ser	Val	Lys	Asn	Gly	Ala	Glu	Thr	Arg	Val	Asp	
385					390				395						400	
Leu	Leu	Cys	Thr	Tyr	Leu	Gln	Pro	Leu	Ser	Gly	Pro	Gly	Leu	Pro	Ile	
				405					410					415		
Lys	Gln	Val	Phe	His	Glu	Leu	Ser	Gln	Gln	Thr	His	Gly	Ile	Thr	Arg	
			420					425					430			
Leu	Gly	Pro	Tyr	Ser	Leu	Asp	Lys	Asp	Ser	Leu	Tyr	Leu	Asn	Gly	Tyr	
		435					440					445				
Asn	Glu	Pro	Gly	Pro	Asp	Glu	Pro	Pro	Thr	Thr	Pro	Lys	Pro	Ala	Thr	
		450				455					460					
Thr	Phe	Leu	Pro	Pro	Leu	Ser	Glu	Ala	Thr	Thr	Ala	Met	Gly	Tyr	His	
465					470					475					480	
Leu	Lys	Thr	Leu	Thr	Leu	Asn	Phe	Thr	Ile	Ser	Asn	Leu	Gln	Tyr	Ser	
				485					490					495		
Pro	Asp	Met	Gly	Lys	Gly	Ser	Ala	Thr	Phe	Asn	Ser	Thr	Glu	Gly	Val	
			500					505					510			
Leu	Gln	His	Leu	Leu	Arg	Pro	Leu	Phe	Gln	Lys	Ser	Ser	Met	Gly	Pro	
		515					520					525				

Phe Tyr Leu Gly Cys Gln Leu Ile Ser Leu Arg Pro Glu Lys Asp Gly  
 530 535 540  
 Ala Ala Thr Gly Val Asp Thr Thr Cys Thr Tyr His Pro Asp Pro Val  
 545 550 555 560  
 Gly Pro Gly Leu Asp Ile Gln Gln Leu Tyr Trp Glu Leu Ser Gln Leu  
 565 570 575  
 Thr His Gly Val Thr Gln Leu Gly Phe Tyr Val Leu Asp Arg Asp Ser  
 580 585 590  
 Leu Phe Ile Asn Gly Tyr Ala Pro Gln Asn Leu Ser Ile Arg Gly Glu  
 595 600 605  
 Tyr Gln Ile Asn Phe His Ile Val Asn Trp Asn Leu Ser Asn Pro Asp  
 610 615 620  
 Pro Thr Ser Ser Glu Tyr Ile Thr Leu Leu Arg Asp Ile Gln Asp Lys  
 625 630 635 640  
 Val Thr Thr Leu Tyr Lys Gly Ser Gln Leu His Asp Thr Phe Arg Phe  
 645 650 655  
 Cys Leu Val Thr Asn Leu Thr Met Asp Ser Val Leu Val Thr Val Lys  
 660 665 670  
 Ala Leu Phe Ser Ser Asn Leu Asp Pro Ser Leu Val Glu Gln Val Phe  
 675 680 685  
 Leu Asp Lys Thr Leu Asn Ala Ser Phe His Trp Leu Gly Ser Thr Tyr  
 690 695 700  
 Gln Leu Val Asp Ile His Val Thr Glu Met Glu Ser Ser Val Tyr Gln  
 705 710 715 720  
 Pro Thr Ser Ser Ser Ser Thr Gln His Phe Tyr Leu Asn Phe Thr Ile  
 725 730 735  
 Thr Asn Leu Pro Tyr Ser Gln Asp Lys Ala Gln Pro Gly Thr Thr Asn  
 740 745 750  
 Tyr Gln Arg Asn Lys Arg Asn Ile Glu Asp Ala Leu Asn Gln Leu Phe  
 755 760 765  
 Arg Asn Ser Ser Ile Lys Ser Tyr Phe Ser Asp Cys Gln Val Ser Thr  
 770 775 780  
 Phe Arg Ser Val Pro Asn Arg His His Thr Gly Val Asp Ser Leu Cys  
 785 790 795 800  
 Asn Phe Ser Pro Leu Ala Arg Arg Val Asp Arg Val Ala Ile Tyr Glu  
 805 810 815  
 Glu Phe Leu Arg Met Thr Arg Asn Gly Thr Gln Leu Gln Asn Phe Thr  
 820 825 830  
 Leu Asp Arg Ser Ser Val Leu Val Asp Gly Tyr Phe Pro Asn Arg Asn  
 835 840 845  
 Glu Pro Leu Thr Gly Asn Ser Asp Leu Pro Phe Trp Ala Val Ile Leu  
 850 855 860  
 Ile Gly Leu Ala Gly Leu Leu Gly Leu Ile Thr Cys Leu Ile Cys Gly  
 865 870 875 880  
 Val Leu Val Thr Thr Arg Arg Arg Lys Lys Glu Gly Glu Tyr Asn Val  
 885 890 895  
 Gln Gln Gln Cys Pro Gly Tyr Tyr Gln Ser His Leu Asp Leu Glu Asp  
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 Leu Gln

&lt;210&gt; 207

&lt;211&gt; 2627

<212> DNA  
 <213> Homo sapiens

<400> 207

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```

<210> 208  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 208

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Ile Ile Leu Ala Gly Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser
          20          25          30
Gly Arg His Ser Ile Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile
          35          40          45
Gly Glu Asp Gly Ile Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu
          50          55          60
Ser Asp Ile Val Ile Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val
65          70          75          80
His Glu Phe Lys Glu Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met
          85          90          95
Phe Arg Gly Arg Thr Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn
          100          105          110
Ala Ser Leu Arg Leu Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr
          115          120          125
Lys Cys Tyr Ile Ile Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu
          130          135          140
Tyr Lys Thr Gly Ala Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn
145          150          155          160
Ala Ser Ser Glu Thr Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln
          165          170          175
Pro Thr Val Val Trp Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser
          180          185          190
Glu Val Ser Asn Thr Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met
          195          200          205
Lys Val Val Ser Val Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser
          210          215          220
Cys Met Ile Glu Asn Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val
225          230          235          240
Thr Glu Ser Glu Ile Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser
          245          250          255
Lys Ala Ser Leu Cys Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu
          260          265          270
Leu Pro Leu Ser Pro Tyr Leu Met Leu Lys
          275          280

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&lt;210&gt; 209

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 209

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His Ala Ser Ala His Ala Ser Gly Arg Gln Arg Gln Leu His Ser Ala
 1          5          10          15
Ser Thr Gln Ile Arg Trp Glu Pro Ser Pro Ala Met Ala Ser Leu Gly
          20          25          30
Gln Ile Leu Phe Trp Ser Ile Ile Ser Ile Ile Ile Ile Leu Ala Gly
          35          40          45
Ala Ile Ala Leu Ile Ile Gly Phe Gly Ile Ser Gly Arg His Ser Ile
          50          55          60
Thr Val Thr Thr Val Ala Ser Ala Gly Asn Ile Gly Glu Asp Gly Ile

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65          70          75          80
Leu Ser Cys Thr Phe Glu Pro Asp Ile Lys Leu Ser Asp Ile Val Ile
      85          90          95
Gln Trp Leu Lys Glu Gly Val Leu Gly Leu Val His Glu Phe Lys Glu
      100        105        110
Gly Lys Asp Glu Leu Ser Glu Gln Asp Glu Met Phe Arg Gly Arg Thr
      115        120        125
Ala Val Phe Ala Asp Gln Val Ile Val Gly Asn Ala Ser Leu Arg Leu
      130        135        140
Lys Asn Val Gln Leu Thr Asp Ala Gly Thr Tyr Lys Cys Tyr Ile Ile
      145        150        155        160
Thr Ser Lys Gly Lys Gly Asn Ala Asn Leu Glu Tyr Lys Thr Gly Ala
      165        170        175
Phe Ser Met Pro Glu Val Asn Val Asp Tyr Asn Ala Ser Ser Glu Thr
      180        185        190
Leu Arg Cys Glu Ala Pro Arg Trp Phe Pro Gln Pro Thr Val Val Trp
      195        200        205
Ala Ser Gln Val Asp Gln Gly Ala Asn Phe Ser Glu Val Ser Asn Thr
      210        215        220
Ser Phe Glu Leu Asn Ser Glu Asn Val Thr Met Lys Val Val Ser Val
      225        230        235        240
Leu Tyr Asn Val Thr Ile Asn Asn Thr Tyr Ser Cys Met Ile Glu Asn
      245        250        255
Asp Ile Ala Lys Ala Thr Gly Asp Ile Lys Val Thr Glu Ser Glu Ile
      260        265        270
Lys Arg Arg Ser His Leu Gln Leu Leu Asn Ser Lys Ala Ser Leu Cys
      275        280        285
Val Ser Ser Phe Phe Ala Ile Ser Trp Ala Leu Leu Pro Leu Ser Pro
      290        295        300
Tyr Leu Met Leu Lys
305

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<210> 210

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 341, 447, 451, 458, 535, 573, 650, 681, 683, 725

<223> n = A,T,C or G

<400> 210

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tacatgcgga atggaaagca ggcgctcagg gtggctcctg ctggaatgag agctggagtg 180
caggctccgt ggttcctggg catgcgggtg tggctcagtt ctcaccttgc agatggagtg 240
ggactgttga cccaggccag cctggggact gcctcctcac ctccctgcgc aggctgacct 300
tgtcaccttg cctcttgagc ttgcctctct cctgcccaga ngtccttgga gcaaaatgga 360
ggtcgagagg catttggcac tcacgcctca ccaacggacac tgggtgcattc ttgggtacct 420
cttggcctca atctattgct gggggangga ngactgangc ccattgctgg ggccctgaat 480
gcagggactg taaccaccca tccccttctc agggcacctc tccctctcca gcaencttgc 540
tttgctatta atgctaccta atttcctact gangtggtct agaagctcct ccgccattgc 600

```

```
ccttgccgcc agcaaatttt tatccctagg gttaagataa cagaaggcan ccttgggcct 660
tgccctgccac attctcaggt ntncactgaa gcacagtatc tatttctcca aaaatagggg 720
ctgtnaactt gttactaccc cc 742
```

```
<210> 211
<211> 946
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 530, 540, 574, 608, 661, 719, 722, 734, 735, 785, 786, 807,
811, 827, 829, 835, 840, 865, 877, 894, 898, 899, 921, 924,
927, 935
<223> n = A,T,C or G
```

```
<400> 211
ggcacgaggc acatcgctgg atttctcatt gccaaagtct attaattcat tctttttcat 60
aacctcttat tcttatttca tggatgcaac attttctttg tctctcaggg aataataatt 120
attcctactt ttaaaggtct aatttcttta ttactttatt tctctgggag tgagtttttc 180
ctaaagggat aatgagatgg aaaatgaaaa aacaaagttg agacatggag ataccttctg 240
aaactcaagc attcctctac gtggatgtgc cagagggaaa gaacagaaca aaggagggta 300
gacactatth aaataaaaaat atataagaat attacataac aaacaaaaaa gcccaaattcc 360
tcagggttgaa aaggaggaga aaatgtcaag caagacaaaa acagatgaag caaccaaaaa 420
agtgcacatag ctggtcacct atattgaaat ttcagaacat gagtgataaa ggactcccag 480
aaaaaaacaa aacccaaact aaaaaacaga aaaaaaggac tttaccaccn aaaacttgan 540
gaatcaggaa gactcagtct ctcatthaaga aaantgctat aggggatggg ggcaaggcct 600
tcaaagtngc aggggatacc aataacctct ctgaagtttt ggaacttcat actccaaaat 660
ngaatttttg tttgaatagc cccggttagg ggccaatttt aggacttaga aaggacceng 720
gnaaatcatt cccncttgc ccccccgaa agaaattaat agaaggggtt tattcccgcc 780
attannaana aaggaatcca ggaattnccg nttttttcca gtgttangnt gggngtgtn 840
aaactgaggg cttagcaagg gcggnattaa ccaccnngg tcccaccca aaantggngn 900
gggtgggccc caaatcggg nttntnct ttaangcgtt aaaccc 946
```

```
<210> 212
<211> 610
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
563, 585, 593
<223> n = A,T,C or G
```

```
<400> 212
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgcc ggcaaggaga cgagtagaag 120
ggagcggcat cctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg aactgcagc tcggccagag tggtaaaaaa tgccttggtg tacgcttttc 240
tggttttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggccttctca ntggcttgaa agctcagctg 420
actccacga aatttgccgg aaactcaagg ctgtcagtga cnttcgtggc ggcaagactt 480
```

```

aancangcgc gttgcatgca tccggccagt gtctgtgccg cgtgccctga cnccaccttg 540
anataancac ccggaacgcg cncgcgcgag gccgcgcgca cacgnccggg cancaacttg 600
gctggcttcc 610

```

```

<210> 213
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5
<223> n = A,T,C or G

```

```

<400> 213
ccganagcgg tttaaacggg ccctctagac tcgagcggcc gccctttttt tttttttttg 60
aaataaatTT ctagattatt tattacataa gcagaccact gaaacattta ttcaaaagta 120
ttccattgag agtcaaaaac atattgatat gattattatt ggtctgttaa agaaaacaaa 180
ataaaaagaa caaactggga attatcaata aacaaatcaa aacttagatg taattataac 240
ctaaagggct cacagggcaa atgtgaagca agcttctgtc tcagagcctg catatggaag 300
acatgtagta cttagctttg gcatctttct ttctctctct tgggtgagtt taagtattaa 360
taaaaggtgg actgagaaaa ccttttttta caatcttatg gggtattttt agtggaacg 420
ttttagaagt aggaatat 438

```

```

<210> 214
<211> 906
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 302, 324, 432, 444, 461, 498, 528, 561, 585, 617, 645,
660, 669, 699, 701, 760, 781, 824, 835, 849, 863, 872, 875,
881, 888, 893
<223> n = A,T,C or G

```

```

<400> 214
gccctctaga tcgngcggcc gccctttttt tttttttttt gaaataaatt tctagattat 60
ttattacata agcagaccac tgaaacattt attcaaaagt attccattga gagtcaaaaa 120
catattgata tgattattat tggctctgta aagaaaacaa aataaaaaga acaaactggg 180
aattatcaat aaacaaatca aaacttagat gtaattataa cctaaagggc tcacagggca 240
aatgtgaagc aagcttctgt ctcagagcct gcatatggaa gacatgtagt acttagcttt 300
gncatctttc ttctctctct ttgnttgagt ttagtattaa taaaagttgg actgagaaaa 360
ccttttttta caatcttatg gggtattttt agtggaacg tttagaagta gaatatacat 420
attaaaactg cncagaacaa atgnggtgca tctcaaatgg nggtccattt tcaaaatatg 480
aacacatatg ggcagcantt ttttttttaa aaagtcagaa ggggcctnct catgccccctt 540
tccacttctt cactcattgg nccttcaacc caagcttaac tactntcctg acctccaaca 600
tcataaacta gtttcnagc tttgaaactt ttttccaatg agtcntaccg gaatagatgn 660
tcacagaanc ctcttaaaaa ttttgacccc tgcccgggnt ntaaaaaggg tgcaataaac 720
ccaccaacat cttggctggg ggggcagggg ccaaaagaan ttcccaaac cgtttttgat 780
naaaaaaggg gacttttgaa aaaaaaatta aaatttttgc cagnaaagca tgggnccccc 840
cccttgaana aaccccctgc atnaaaccaa cnttntggga nttttttngg tanggttttt 900
ctggct 906

```

<210> 215  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 188, 294  
 <223> n = A,T,C or G

<400> 215  
 ggcacgagga aaccagggttg gctggggtttt ggggtgtaaac ttaaaaatga caatcagcat 60  
 gagctggccg tgggctgtgg gggttgtagg ggcattcttg taagggaacc ctgctcagt 120  
 ccctctctgt tctgggtggg aggacaagga gggccaatag gggccaatag ggaggctgct 180  
 gctaggangg tttcctaataa gaacagggtg agggctaggg ctggttctta gttcagggtg 240  
 ctctgggcag tgatttatat ccacacacct ttctgcaaag tgtcctaagg aganggcagg 300  
 gataggagtg tc 312

<210> 216  
 <211> 341  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 8, 14, 30, 40, 45, 51, 69, 84, 91, 95, 112, 115, 117, 136,  
 142, 145, 176, 189, 191, 226, 227, 231, 236, 294, 314, 331,  
 332, 340  
 <223> n = A,T,C or G

<400> 216  
 taagcctntc gaanataatg aatgagtcn ggagaggctn atgangaaat nccaaacacc 60  
 tgactaatng gtgccacatg attncaatgg nctanacatg ggtagatct cntcngngga 120  
 atgagcaata acacnnttaa antcntcaat tgacctagac acttcacact tgaaanata 180  
 tcactttttna ngaccacgaa tgatgcttaa gaatcacatt ttgtgnngaa ntggantctg 240  
 gctacttaca cgaacagatt cttatttctg ttcattgagcc agtagaccg gaanaagact 300  
 taagagcttc tganctttct cttagctcca nngcttgaan g 341

<210> 217  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 2, 8, 15, 18, 36, 41, 59, 60, 70, 77, 81, 91, 96, 97,  
 101, 110, 123, 149, 173, 174, 176, 191, 195, 202, 218, 227,  
 228, 232, 241, 244, 253, 262, 269  
 <223> n = A,T,C or G

<400> 217  
 nnccttnc ccttnacnga catgaacaaa acagcngtct ngaaatttta ttaacattnn 60  
 aagggttaacn ctccctnctt ntgttttccg ntaaannta nacctgcgcg ggggcggccg 120  
 atncagccct atagtgagaa gcctaattnc agcacactgg cggccgttac tanngnatcc 180

```
cgactcggta ncaanttttg gngtaaagat ggacatanct ctatccnnga gnactcgtca 240
nccntttctct atnttacatg cnctaacgna gac 273
```

```
<210> 218
<211> 687
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 56, 59, 74, 123, 138, 169, 177, 183, 187, 205, 227, 229,
237, 238, 245, 253, 329, 334, 372, 456, 474, 480, 516, 558,
563, 564, 584, 593, 599, 611, 636, 639, 670
<223> n = A,T,C or G
```

```
<400> 218
ttttcagtgc tgttttgttc tcaatTTTga tgtcaaaaatc tctgggttct tctaancTng 60
ttatgttctt ccancaaatc cttccagttt ttgtaatttt tttctatatc agaagcgcct 120
gancccaatg cccaattnat acaccggtct tctccggaac gcttggtcna aagggtntag 180
tcnatTnggc tcctggaagc atctnaaatg ctccaggTTa ctcccangnc cctggannac 240
ttcanttgTc tanacgaatc ctggTTTTcg agcggTcctt gatatcgcaa ggaaatacgg 300
taaaaattat ccaagctctc ttcccactna gganttcgga tctcatcagc cgggtaaagg 360
aaaactcctc angaagtttg ggcttccccT cgggtctacc ggctaattgt aggaattact 420
tctggctctc ttccgataca tcctctcttc aaagtnaaga aggttaaaaag aatnttaacn 480
tctcccagtg gctaattggtc aaacaccatc ctcatnagtc agactggggT ttcgaaagga 540
ggatataacc tccttgcnag tttnaattaa aagggattaa ccanatggac tanccctcnc 600
cccgggattt nctctctcac aggagaaggg gtctcncncn ttggctcatc cgaagcatag 660
gcaaaccccn gggaattttc agaaacc 687
```

```
<210> 219
<211> 247
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 10, 16, 54, 74, 89, 91, 118, 122, 130, 131, 138, 147, 154,
156, 163, 184, 185, 215, 233, 241
<223> n = A,T,C or G
```

```
<400> 219
gggcccttcn cctttnaatc gagagatcca aggttcaagg catgaaatac cagnctataa 60
aatgtctcaa gacntaaata atacggatng ngatagagag gttgaataat aaatgaanaa 120
anatgaaagn nattatgngg gaatacnaaa aaancngact aanggcggca ctgctgggca 180
tggnnaaatc ggattaattc ctcataggac agccnaaccc cttaaaatct cantttccgt 240
naccgga 247
```

```
<210> 220
<211> 937
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
```

<222> 73, 867

<223> n = A,T,C or G

<400> 220

```

cgggctcgag tgcggccgca agcttttttt actatagacc aatattaaag tcagttaagt 60
tccaaataca ganttggaag actaaagtaa aatatttaaat gggagaatat ctgcatctga 120
atatgtcaac tgtttgctat ttttcagcta tttaatcctt ctacctgtat ctcaaaaaca 180
aatttaaaaa ttaatagatt tgacagcaaa atcattcagc actttactta ctccatcagc 240
aaggatatta tgtagtcatt tccatccatg tggccaaact gaaaatccct aaccaccacc 300
aaccaaaaat aaataaataa aaggagaggg ggtgggggga gagagagaga gaaagctcat 360
taaatagtaa aaaagtaaat aaaacaatga agttaaattc aggcctcagt aggcccagaa 420
actgtaaaca tttcacatgt aaatcatata caataaacac tgctaaaagt gtaaattcta 480
ctggcttctg agatacaaat acacgagtag aggaaattct aagacatttc tacttggttt 540
atgcatattt aaaattcagg gaaatatcag ctattctacc tgaaatatgt ttaagaaaaa 600
ttcctatttt ctctaaaaaa aggaataatc agaagacgct acatactatg taagaaaact 660
atacaatgac ccatcattag aagattcaga ataggaaaga aataataatt cactaataaa 720
atatatttat attgactgtc tttttttatg atagcaacaa tgattcagca taaagtaaaa 780
atatatgtat ttccgatgcc attttttatt cagttattct tttgagtttc tgttagaata 840
attatctgcc tatctctgac ttctgancag tcatttatgt ccaattataa gtacatgtgc 900
atattttatt accttaaacg cctctcaaat ccttttca 937

```

<210> 221

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 7, 8, 9, 12, 13, 16, 20, 24, 27, 29, 30, 45, 50, 88, 126,  
269, 287, 293, 309, 310, 311, 312, 320, 328, 329, 335

<223> n = A,T,C or G

<400> 221

```

ggctatnnna tnnntntaan atcntgncnn ccttgacgct gttantaaan aaaaacaaac 60
gaatatcctt tttttgctcc cccctgtncg gataactaat tcacactaat acttacagta 120
taactnttcc tttcaactac caatattaag ttccaagcca cctgggctta agtatcccaa 180
caacttaggt aatttggtgc taaccaccat actatatgct aattataaca ctctaagccc 240
caaggaattt ttgttcagat ttcttatant ttccacttat aaatatnatt ccncctctat 300
gggtatatnn nncctctagn cccatatnnc ccacnggat ttgttgaggg ggc 353

```

<210> 222

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 638, 661, 664, 694, 709, 717, 722, 726, 743, 750, 752, 759,  
760, 766, 784, 790, 799, 800

<223> n = A,T,C or G

<400> 222

```

ggcacgaggg tttactaagg ccagactcac tatccccgct tctgttctgt ggtacactgt 60
tcactcctca gtccatccta acctgacttc ctggccactg cagctcttcc gataagggtc 120

```

```

agcagtggct tagttattgc taaataataa ggcacatgc actccctctt tcctgaaaca 180
ttgtccctcc ttggtttctg ttctttccta ggtctcctat cactcctcct tagtcttctg 240
tgcggaacttc tgttcccttct gcccttttaa agttgggtatt ttccaggatt ctgtcctagg 300
cccacttact tctcattctg cacgttcttg ttggatgatt ctatcacatc cctaacttct 360
gctgcccagt atgcacttaa aattcccaaa tctgtatatc tggatctggc ctgtgtctct 420
agcctagaag tgtgctttat ccagaagca cctcaaacac tgcactttgg aaattaagct 480
tactgagtct cgagtctcaa gtcccaaact gacttctttt tctctatttt ggttagtgac 540
aacactattt attcagtcac gcaaaccaga gccctgagaa ccactctaca ttctctttct 600
ccctttactc agttcttgct tctgttcttt ctctccncc tctcctgcct gtgggcctag 660
nggncattaa ctggttgga ctgctttact ttcnattttt ttggctganc taaccnaag 720
ancctnttgt aggggccttt ctntcaggcn tnacttctnn caagancccc cgaaaccaga 780
tccnggggan tgctatggnn tggaaatatt ttg 813

```

<210> 223

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 753, 781, 810, 829, 835, 861, 863, 871, 875, 880, 882

<223> n = A,T,C or G

<400> 223

```

tcacactact gagaagcagg gaaaccact gaaagggcac gtttcttaac ctgagaatgg 60
ggctactagc ctctaaagca ggaattgcgt tttgtttagt atttccatgg tctgctgcaa 120
ggcgtggcct ttacccaatg gataaatgcg tacaaggctc ttgtgagcag tcaagtttct 180
cgaggtttac agttgaaggg aagtgggatt gttttcctgc gcattttaat gaaggtaggt 240
gggtgatcac ctttccttaa atgtgtgaag ggatgagata aagagatagg catcttaatt 300
gccactgatg gccttcaggt gaggacaggc atgagccaac tgaagctttg acaattgtgc 360
tgaacccaaa acttcaaaaa caagaaaaaa catagactgg ctgaaatgat ctaagtcaac 420
agagcatggc cagcgcttca tacaaggcag gaccacaggg gaacactgac agcccaggag 480
gcactgagac agaggcagt ggaagaagt acagaccca gggactccc accaacagca 540
gctgctgttg attaggaacc ccagtagac tgtcaggcac ctggtagtgg agaggctacc 600
aaggcccga ctggagagga gccaaaggaa gaaacagtgc agtgcttaga cccctctggg 660
tctgcccgtg tccatacccc tagggagatt ccattccaga agtggacata ttcccacaga 720
gtgctgggg ctcactcatc acagctgcc ctncatgaag gcattctcac tgcagcctta 780
ncagggaaca gggctcattt cattagggcan cttgctgtcc tagaaggcnt cgggngtccc 840
tacactgccc atgttcccaa ngnggttcaa nctcnaaaan tn 882

```

<210> 224

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 77, 104, 116, 157, 169, 198, 253, 273, 325, 327, 330, 336,  
350, 357, 361, 400, 434, 443, 478, 511, 555, 582, 596, 613,  
622, 641, 651, 660

<223> n = A,T,C or G

<400> 224

```

gattaaactc aatcattcac ccgggctcga gtgcggccgc aagctttttt tttttttttt 60

```

```

tttttttttt ttttggncct ctgggcttgt gcccggaagg ggantgctgg gccacntggg 120
tgtccgtggt tgattttctg ggacctgccc ccccgtnctc cgccccggnt gccgcgtctc 180
actccccgcc gcggtgcnag gggccccgtg tgccgcgcac ccttccaccc gtgttttctg 240
gtttttttga cnttgggcgt cccaggggtg cancgccgt ggggccctgg tttgctttca 300
cctcttcacg tgctcactgg ccgcnantgn gtcttnttca aacaaacgtn tgaaggncaa 360
nccctgggct cctgtgaacc cggccgtctt tgcggcaaan tctgaggctc ctctgttatt 420
ctggatccgg cctntggctg gangcgtgct ctgcaggcac tgctccatt gctggcancc 480
ttttctcccc gtggccgccc ggccgcccac naaaggcggt gcaaacgccc gccctcgcca 540
gcgcaaagtc aaacnccggt ggcccgcgga cccccggcg gncgggaaca cccancagg 600
cgggcaccac aanaagcgcg gncctccgcg gtctaaaact nccatgtggc nccccccgcn 660

```

<210> 225

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 62, 171, 179, 192, 209, 278, 287, 292, 362

<223> n = A,T,C or G

<400> 225

```

aaaaaaaaag gaaaagtacc cagtgtcttc agcttctgag cctcctctac agccctgttg 60
gnttttaaac ctgtgccctg tgtctgtgtc cccacttaat atatatagta cacagctgga 120
gagatggctc agccaggaga gggaccata ggtctgtgaa ttccagagga naggcaggna 180
tttatagggt gntctgtcag gtgaaatcng aggagccaaa gctattgtat gtgcatatgt 240
cagccgggct ctgtgggagg tgggtgaaga cctatggnat gggacangtg tncacgctgg 300
gatctctggc cggttccgaa aagtgaggat caggtagtgg gtggctgatt gcacaagttt 360
anaaccagg attagggaca cacaggtcag cacctgcttc tcagcatcct gactgggtgt 420
gatgggcata ctcaaggc                                     438

```

<210> 226

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 416, 422, 451, 466, 470, 479

<223> n = A,T,C or G

<400> 226

```

aaaattaaaa ccaaaaggat cttagaggct ctttacttca gtggttctca atgtcagagg 60
atgttatgat acctaataca aatctccagg ggaactgttt tgaactcaac agactctctc 120
ctgttctgag agactctggc aaagttagga gagctgccag gtactgtcca catgaccctg 180
actgcccatt attcaattac cttgaatggc ttatccagtc caataccttc atttcttaca 240
tgaggaaaact gaagcacgta tcacatagtg atacaatgaa aacttggcct taatcgattt 300
tcagtgtcgc cagtacaatg tcttgagcat atcaatttct tccaaccctt gacaacataa 360
ggtacgacca tcaaattttt tatttctgct aatttattag accaaaaaaa aagggnatct 420
cnccatttgt ttacaggga tgattttatt ncagaggatt tcactntggn gctgattcnt 480

```

<210> 227

<211> 423  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 312, 395  
 <223> n = A,T,C or G

<400> 227  
 cattgtgttg ggctctgctt agcacatcac atcggagcac agaggtgacc tgttctgcc 60  
 cagggatgtt caccttagtc acctgattga ttctctttca ctttggtcac gtgattcctc 120  
 caggaggatg ttcaccttgg tcgcctgatt cctccaggag gatgttcacc ttggtcgctt 180  
 gaccacacag gcacttatca ggcttttctca ctgcagccac tatgtcccca taatggatga 240  
 gtgtcttgtg gagagatagt ccaaagacac ctgatacctt ttgcctcata cggcctcacc 300  
 cccaacaat cnaccactaa tgactgcctc atagcagttt ttccatttcc acagttcctt 360  
 ctatatgtat taattgtcat tctactataa agaanacttt ttctttttaa aaaaaaaaaa 420  
 aag 423

<210> 228  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 cattgtgttg ggctgtagta aaatatgtgt ctggtgaagat atgtgaagaa ataaaataag 60  
 atcaattaaa tctggcccat tgaatgacac attaatgtga tattaatatg taatgttaaa 120  
 gatatttaga gatgggtgga cattatggca aactaaaatt gggaggaggat tgaattgtat 180  
 aatttatgaa atcctaaagt ctagtacatt aacactctct actgtcaact tttcaaagca 240  
 gtgagaaac 249

<210> 229  
 <211> 436  
 <212> DNA  
 <213> Homo sapiens

<400> 229  
 cattgtgttg ggatgttatt tgaccatcac aatatgattt ataatatgga ggcatgaagt 60  
 cattttctcat tggggcagga gtgtggcaag ggggaagaag agctttacca attactcaa 120  
 gattatattg tgacatttct cttacctttt aggtgaggag aaagagacag aggatggaga 180  
 attggtgctt ttagtatgct gatacatcaa gctgcctgga agcagatgct aaatcctatt 240  
 gaaaataatt ttatttgcgt tttgcttagg gcattgttta gcaaaatact acacaaaaag 300  
 tcttgacctg tgtgtttgaa atggcagatg ttcacagtga ggactgagcc ttggggcaac 360  
 atcaatcttc acaattctgc acctatttgc tcaataactg gcttggttgg aaaaaaagg 420  
 aaaaaaaaaa aaaaag 436

<210> 230  
 <211> 760  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 14, 27, 66, 105, 194, 227, 239, 520, 537, 563, 597, 604,

646, 675, 686, 704, 716, 751

<223> n = A,T,C or G

<400> 230

```
catttgtgttg ggnngtgga gaaaaanttt gaggcaatga agctaaacat aaaagaggaa 60
aagcanatgt tacctcaatg accacaatct acaaagtcca aatanaaaac ctgggagtat 120
gataggatga aactataacc tccagcaaag agcttaacag caattaaaat aaagacaaat 180
ttctgggatg gatnagacaa agtagcatat attacaaagg aaaatanact agtatcatnt 240
acgtttgatt aagtaactgc tttcaaataa ttgaatcata aacaatgatt tctgcggttt 300
taagctcatt attttggttc cctggtttct cctaggatgc agtatagaat ctccatgcct 360
gatgtttatg taccaacaga agctgctgct tctttctttc attatttcct ttttaagtga 420
aagttaatac cttttatatg ttacagagaa gaggcagaaa aagccacact ccactatgc 480
tattaaatgc cctgaggatc aactgaggga tgattatacn catggctgaa tacagtntat 540
tcatttgatt ctttggttg tanataacaa aaggtggtat tctgtaacat cttgtgncaa 600
ttanccaaat gtttaaggcga aaatggaatc tttcaaacaa gtgttntaaa caggttttga 660
ttttccaaaa tttantatta gaaccntttc aattctggaa gttncccaat ttccangttg 720
tgttttctct tccaattctt ctttcctttg naaattcccc 760
```

<210> 231

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 20, 44, 47, 76, 92, 94, 105, 121, 123, 131, 146, 168, 208,  
213, 218, 267, 269, 312, 331, 333, 341, 357, 374, 403, 437,  
450, 451, 465, 492, 493, 501, 508, 531, 542, 560, 570, 588,  
593, 600, 617, 619, 643, 651, 652, 653, 672, 692

<223> n = A,T,C or G

<400> 231

```
catttgtgttg gggggtgctn tggggagaac acgcttatgt tganatnggg ctccccgaga 60
aagcctcatt gacacnttcg aataaggacc cntngggaaa ttcangtgag ttgtggacat 120
nntagataa natcaaaggc cttgangaag tccgcctggc accttcctngt ctgcgaggag 180
gttgatacca aatgctaagg ggtccagntg cantgtanta tcgtgagatc agagtgtatg 240
gcagggtgtg gcatgcgggc cctcaanang aagtgccag gatgactcag acttatgcct 300
atatccattc antcctgttc attattttta ncnttccctc naaggacccc caatttnaac 360
catttgttat tcanggctat acttataaaa gtcatttgtt ttnagtctgg gtgatattaa 420
aaccatttgg acgccangca tggtggctcn nggcctataa tcctntccac cttggggaag 480
ccgaagctgg tnnaatccct naaggtcngg aatttgaaaa ccacccctggg ncaacattgg 540
gngaaaccct gtctctactn caaaaaacan aaaattttct ggggcctngg ttngcaggtn 600
gcctgaaaat ttccanent tactccggga aggccgaatg cntaaaaaa nnnaccttta 660
acccccccga angggcgga agtttccatt tn 692
```

<210> 232

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 13, 35, 38, 60, 66, 71, 77, 90, 105, 117, 118, 151, 154,  
157, 164, 177, 181, 193, 230, 235, 238, 243, 247, 250, 255,

267, 273, 277, 279, 284, 293, 309, 320, 322, 334, 357, 370,  
372, 373, 380, 386, 388, 398, 402, 410, 446, 467

<223> n = A,T,C or G

<221> misc\_feature

<222> 476, 477, 479, 504, 510

<223> n = A,T,C or G

<400> 232

```
actcaaatgn ccncttgaag gtcacccaga ctcanaangt gtcaagcttt. ggggtggggtn 60
gtaatnaata nctcggncctc ctgattagtn ctcctagctc gatcncctggc tgagatnnngt 120
tcgagcacc cccgttctgat cccgtcaaac nccnggnaaa agcngcctgc gtagtcncct 180
nagccgaatc tgnntttcccg acaccctccg ctccgttcggc tgccctggtn aagcngcctc 240
ctnaaanaaa aaagngaagt ctccccngtc tcncccnant cctngggaaa acngcctgaa 300
ccaatatgnt cccccaaggn cccccaggg cacntaacc gttaggagg cccccnctg 360
gcgttttggg cnnaagccn gccccngnaa taaccncct anaaccacgn aaaaatgcaa 420
agtcccaaag ggtaaagaat ctcccnaccc cccggttccc tcgcaanctt cccctnngna 480
cttgtgttcc gggaaaaccc ttancccgan cctttcca 518
```

<210> 233

<211> 698

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 509, 617, 618, 635, 641, 681, 688, 690

<223> n = A,T,C or G

<400> 233

```
gcacgagttt ctgtctgtct gtctctctct ctctctctct ctctctctgt ctctctctca 60
cagttagaat ttggctctgt tctttattca atacccaat atatgttcat tagggttata 120
ctgtatacac tacacataac agttttgttt tttgttttg atattatttg ataataagaa 180
ttttaccaca tcattaaaaa aagtttcccc aagctataat ttttgataat tgcactcttc 240
cactattcaa atgtttattt aactctttct ctcctggagt aggtttacat tccattttag 300
ctatgatact gctttaagag aaattgtttt aagataaatt tccatagaca ggtcaaagga 360
ggtgaatata tgtaagcttt tcgatgcctg ttactgaatc tcattctgga aaacataact 420
gtcaatgcc tctttttctc atggtaaaaa aatacataac aaaatttacc atcttaatcg 480
tttttaaatg ttacagtacg atagtgttna ctgtatgtac cttgtgcaac agattctctg 540
aaaacttttt catttttcaa aatgaaaact ctgtactcat tgaacaggca gcttcccaac 600
ttccccattc ctccanncc ctaccctgg ttaanagtct nacaaaaccc gggaatttta 660
tgaaatttga aacactttta naataccnch tattaggg 698
```

<210> 234

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 289, 331, 367, 523, 545, 582, 594, 623, 652, 663, 675, 698,  
709, 711, 722, 740, 749, 764

<223> n = A,T,C or G

```

<400> 234
ggcacgagcg cagcttttctg aaagctgttaa tttgttttgt atcaaaagtc ctgcagtata 60
ttagtctcat tgcattttta agagttttcca agtgatcagt gatggttgtc tgttttttag 120
tattacgggc ttatgtaatg ttcgaaaact agtcagtttg gtgctgtcgt acggggcgga 180
aagatcaggc caggcaaagt actctggccg ccaaagtaaa tgcttaaggc cgccaacgga 240
ttatgtcctg gggttcgtat agggccgtaa ttaggttgag ctgggtgtang ctaacctcgc 300
agccatgtcg gagagagatg agagacataa natttttaaag taggggcgta ttttacgaag 360
ttctgancca tttcctttgt tatcggtccc ggcaaaagca actgagataa atgtgttaaa 420
agactcgatg attttttcga cttcagcaac gtactcagcc ttgggttctc gtagtttttc 480
aaaggcagct atttgctgag attcatgaaa agtttgactt ganctgcttg tcaatttctg 540
cagcncgggc ttcaactgtt attgaatttg tttgattaag cncaatacgt tgcnggtcac 600
caagggttttc catgttttga ctncacctgg tcgaaccaat ttgaattatg tntttttgcc 660
tgnccgtgtc cccncccttt aaatccatct cttttttnga aacctttgng nggttgaatt 720
cngccgcccg gttcccaacn tttggttcna ccttggaataa aanatgggt agt 773

```

```

<210> 235
<211> 849
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 581, 612, 643, 647, 716, 717, 758, 775, 778, 786, 821, 825,
837
<223> n = A,T,C or G

```

```

<400> 235
attgggtacg ggccccctc gagcagcctc cactgcaatg ccgctgaatc aagagacttt 60
tcaatacgtt ttatcagtga aaatgatgtg atctgaagag tcctatcttg agcactttgc 120
atgacatcca acgttaatgt ccacaacgtt cttagctgcc caacccttt atcggaagc 180
tccaaagtg tgtgcaaagc ttctacggcg tcatgaaaag ctgaaaaatg ctgtgtcaac 240
actgcaccgc tgcgcactct caaaagcagc gcccttatag tctccgcatt cgaagacgat 300
aaccgcgta gaatagcctc ataatcactt ttgtagaaat caatcagagc tgtgctagga 360
acctttccat ccaaaacata cgactgtgag accacgtctg caaaagcaga cgtcacatta 420
tgcatatgcc ctcttaccgt cagccgatca tcctcactca tagcgacgag agaaagctct 480
tgttccagct cgtgcacggt atccaattca gtaatcctac gcaacgccgt ctgaatcgtg 540
ttcataagtt cagtttttaa gctcaaaact tcgtctctta ntttaccctc tgtgactttc 600
aaactgggag antcttcacc attttattaa tcgtcttttt gangganggc ccagcgtag 660
atctgcacgc ccagcggaat cgttactccc tcccattcct cctccgggta acgcanntag 720
tttctccgaa gccttaaaat tagccgggga aagggaantt atttgcccca acaanggnat 780
cgcggnccgt gtggttaaaa ggaactgaaa taaaattaaa nccncttg gggaaangcc 840
cgcatactg
849

```

```

<210> 236
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21, 90, 150, 194, 234, 261, 302
<223> n = A,T,C or G

```

```

<400> 236

```

```

ggggtgggtt gtttccgaaa nccggggccc ggccaacttg ttggcttggg aatattctgg 60
caagaaaatt tccagggcgg cgccaatttn atcaagcccc ggcggcctta aaccgaaaac 120
tctggcaggg tcaacccctt tcatgggcgn ttgaaagctt gaagcgcccc aagttactcc 180
caagcttggt gcgnttgccg ttgggggcgg gggaaaagt gaaaacacgg gcgntttgtt 240
gcccgcgccg cgggcgggtt nttacgccat cctgggaaaa ctttcagggt tggctgctta 300
cnaaaacggg                                     310

```

```

<210> 237
<211> 315
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 21, 24, 38, 51, 85, 91, 107, 110, 116, 127, 140, 163,
164, 190, 205, 213, 222, 224, 231, 233, 241, 255, 257, 260,
269, 294, 295, 303, 306, 314
<223> n = A,T,C or G

```

```

<400> 237
gcacgagtnt ttgttattta natnttgctt tgtttaangg aagaacacaa naatgccctg 60
ctaaagggat tctgttttgt tgcangctgc nagcggggaa aaaatcnaan tgtatnttgc 120
acaacangat tttttagaan tcagaactat gacatgaagt canncagggc actctacgac 180
tgaatttgcn gtgctgcctt cacangctcc ttntctgctc tntnctggca ncngtgactc 240
ntacacgtcc tgganantan cctccctana aggaacgact ccgacacccc cccnntaccc 300
ctnaangttc atcng                                     315

```

```

<210> 238
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 10, 92, 93, 138, 242, 258, 282, 309, 329, 356, 362, 373,
376, 382, 389, 391, 395, 407, 418, 420, 424, 433, 445, 449,
459, 461, 481, 484, 498, 508, 509
<223> n = A,T,C or G

```

```

<400> 238
ngcacgagtn tttgttattt atatattgct ttgtttaaag gaagaacaca aaaatgccct 60
gctaaagggg ttctgttttg ttgcaggctg cnngcgggga aaaaatcaaa gtgtattttg 120
cagaaaatga ttttttanaa gtcagaacta tgacatgaag tcaagcaggg cactctagga 180
ctgaatttgc tgtgctgcct tcatatgctc cttgctcgct cttttctggc agctgtgact 240
cncacaggtc atggaganta tcattcccta aaaggaacaa cnccgatatt catctttatc 300
cattaagtnc atctgtccca ttctatgtng tggatgctaa cttttgatca ttgatngtga 360
tnccatggac atntancatc anctttcana ncctnggatc tttgacnagt cttattantn 420
agantccaac tantacgatg ccganttana aatgctggnt ntccaattcc tactcaaata 480
nccnacatga acttccantc cccttgcnna                                     510

```

```

<210> 239
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 239
gggtgcttttc ccttctactc gtcttcctgc ctggcaggag aagctccgc tactggttgc 60
ccttctacca ctgtcgacac caccaactgc agtgagccag tgtccgaggc tccagccaga 120
aacaggtagc agccatgccg gataccaaac gccacactt aagagcctga aatgacctga 180
cgccacctcc gcatgcttta cctactgag 209

```

```

<210> 240
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 67, 278, 281, 287, 401, 462, 483, 486, 532, 542, 547, 562,
563, 585, 593
<223> n = A,T,C or G

```

```

<400> 240
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccagt aacgggagct tctcctgccca ggacgaaga cgagtagaag 120
ggagcggcat gctggaggct ggagcctgag cccctggggc tcgccttgct gtgtttggtg 180
gtgacgtggg aactgcagc tcggccagag tggtaaaaaa tgccttggtg tacgcttttc 240
tggctttgcc cgtctatctg ctccaagcca ggctgganga ngagganaag gaatcacctg 300
tggtacgctg gagcctgcat gtggcgtgac tctgcaactc gcctcgtgtg actgatggca 360
gccacggaga ctgcagctcg acagggagtg aggccttctca ntggcttgaa agctcagctg 420
actcccacga aatttgccg aaactcaagg ctgtcagtga cnttcgtggc gccaaagactt 480
aancangcgc gttgcatgca tccggccagt gtctgtgccca cgtgccctga cnccaccttg 540
anataancac ccggaacgcg cncgcgcgag gccgcgcgca cacgnccggg cancaacttg 600
gctggcttcc 610

```

```

<210> 241
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 67, 114, 120, 124, 137, 144, 150, 209, 279, 285, 291, 324,
384, 400, 407, 417, 421, 428, 438, 453, 459
<223> n = A,T,C or G

```

```

<400> 241
ggcacgaggt ttctggctgg agcctcggac actggctcac tgcagttggt ggtgtcgaca 60
gtggtangag ggcaaccaat aacgggagct tctcctgccca ggacgaaga cgantagaan 120
ggancggcat gctggangct ggancctgan cccctggggc tcccttgctg tgtttggtgg 180
tgacgtggga cactgcagct cggccagant ggtaaaaatg tcctggtgta cgcttttctg 240
gctttgcccg tctatctgct ccaagccacg ctggaagang agganaagga ntcacctgtg 300
gtacgccgga gcctgcatgt gggngtgact ctgcaactcg cctcgtgtga ctgatggcac 360
ccacggacac tgccactcta cagngaataa ggcttctccn tggactngaa agctcanctt 420
nactccncc aagtttgncg gaactcaagg cntncaactna acttcgtggc gccca 474

```

```

<210> 242
<211> 415

```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 1, 8, 9, 34, 71, 141, 162, 195, 262, 309, 321, 364  
<223> n = A,T,C or G

<400> 242  
ngcgggggnt tccaccagct cgtgtgcaca agtngcgcca cacaacatg cgcaggcact 60  
gcatgtcatc natgtgcttc gccgtgggtc tggaacagcg agtagaagat ggcgttcggg 120  
tcgcgaccaa attcgacgtc ntggatgtc ttgcgcaaga angtcacgta cgggatcggc 180  
ccgatggatc cgctnaagcg ccgaaaggcc ctgacttgca aaccgcggct cacagaaccg 240  
gcaccaccgg cgccctccgc cnacaaaagt cgagcggcct ccgacacaca ctccctcaca 300  
tcccgtcnc gcacttcggc ngtttctagc tccgccacgg ttgtcagcgg caccgcgggc 360  
gcnagctgc cggcggcatc cgttgcacac agcacacacg gatccgctct cgtgc 415

<210> 243  
<211> 841  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 297, 511, 589, 629, 644, 650, 657, 676, 677, 688, 694, 696,  
730, 738, 744, 749, 755, 827  
<223> n = A,T,C or G

<400> 243  
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tgggtgaactt 60  
cgctcctaca gccgagccaa tgaagacgaa tggctgctgc cgaggatggg agtctcacta 120  
gagcacgcgg cgctggacaa ctcatcgact tgtacgcttc cggtagctta gccattcag 180  
ctccactgac gacagagacg gagctggcca ctgccatctc gacgcagcgg gacaaggagc 240  
agcttcgggc gccgtatgca tcaactcgaag agaaccagga gcagccggaa gcaggangcg 300  
ctgcacggta caggcacttt cggcgttca gcggatccat cgggccgatc ccgtacgtca 360  
ccttcttgcg caagaacatc caggacgtcg aattcgggtcg cgaaccgaat gccatcttct 420  
actcgtctct ccaggaccgc gcgaagcaca ttgatgacat gcagtgcctt gcgcatgttt 480  
gtgcggcget accttgggtc acacgaacga nggcaaccaa cccgccccag gtgccgtct 540  
atgcattcct gttctgttcc ggtgtgcatg gccggatgtg gaccgtganc ttggtgaatc 600  
ggctgggtgca tgaagactta ccgctctcnt caaggcgcaa cgcncctcan ttcgganaag 660  
gaacaaaacc ccccnnaag aacggcantt gcancnttt ccccgctgc cggctcttct 720  
ccattcgggn attctctntc tccnaaaant ccgnaaatc ttctttcggg ttctcccttg 780  
ttttatttg cccttcccgc cacttgggtt gttttacatc ctacaancct tttttttctc 840  
c 841

<210> 244  
<211> 761  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 243, 506, 510, 514, 532, 586, 592, 671, 687, 693, 702, 711,  
713, 732, 734, 752

<223> n = A,T,C or G

<400> 244

```
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggatgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctgctg ccgaggatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacagagac ggagctggcc actgccatct cgacgcagcg ggacaaggag 240
cancttcggg cgccgtatgc atcactcgaa gagaaccagg agcagccgga agcaggaggc 300
gctgcacggg acaggcactt tcggcgcttc agcggatcca tcgggcccga cccgtacgtc 360
accttcttgc gcaagaaaca tccaggacgt cgaattcggg cgcgaccgga atgccatctt 420
ctactcgctc ttccaggacc cggcgaagca catttgatga actgcagtgc ctgcgcagtgt 480
ttgttgccgc gctacctggg tgcacncgan cgaaggcaac aaccgcgcgc angttgccgc 540
tctatgcatt ccctgtctgt ccggtgttgc atggccggat gtggancgtg ancttgtgaa 600
tccgctgggt gcatgaagga cttaccgctc tcgtcaaggg cgaacgcgc atcaattccg 660
gaaaaggaaac naaaaccccc cccaangac ggaattttgc ancttttccc ncnctgccc 720
gctcttctcc antncgggct tctctttctc anaaaattcc c 761
```

<210> 245

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 498, 505, 532, 565, 566, 580, 581, 592, 594, 601, 602, 654, 669, 676, 690, 691, 703, 708, 709

<223> n = A,T,C or G

<400> 245

```
aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggatgaactt 60
cgctcctaca gccgagccaa tgaagacgaa gtggctgctg ccgaggatgg gagtctcact 120
agagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacagagac ggagctggcc actgccatct cgacgcagcg ggacaaggag 240
cagcttcggg cgccgtatgc atcactcgaa gagaaccagg agcagccgga agcaggaggc 300
gctgcacggg acaggcactt tcggcgcttc agcggatcca tcgggcccga cccgtacgtc 360
accttcttgc gcaagaacat ccaggacgtc aaattcgggc gcgaccgaat gccatcttct 420
actcgctctt ccaggaaccg gcgaagcaca ttgataacat catgcctgcc catgtttgtt 480
gcggccctcc tgggtgcnca cgaancgaag ggcaacaaac ccgcgccagg tngccgctct 540
tatgcattcc ttgtctgttc cggtnntgca tggcccggan nttggaaccg tnancttggg 600
nnaatcgggt ggtgcattga aggaacttac cgctctcgtc aagggccgaa cgcnccttc 660
agttcggana aaggancgaa aaccccccn naaggacgg ccnttgcnng 710
```

<210> 246

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 85, 91, 198, 332, 375, 458, 507, 516, 538, 553, 570, 593, 607, 624, 634, 646, 647, 653, 659, 674, 684, 693, 704

<223> n = A,T,C or G

<400> 246

```

aacgaggtgt cgatgagcgc gaacaatcgc cctccttcat ctctacctga tggatgaactt 60
cgctcctaca gccgagccaa tgaanacgaa ntggctgctg ccgaggatgg gagtctcact 120
aaagcacgcg gcgctggaca actcatcgac ttgtacgctt ccggtagctt agcccattca 180
gctccactga cgacaganac ggagctggcc actgccatct cgacgcagcg ggacaaggga 240
gcagcttcgg ggcgcgtatg catcactcga agagaacagg agcagccgga agcaggaggc 300
gctgcccggg acaggcactt tcggcgcttc ancgatcca tcgggccgat cccgtacgtc 360
accttcttgc gcaanaacat ccaggacgtc gaattcggtc gcgaccgaa ttgccatctt 420
ctactcgctc ttccagggac cggcgaagca cattgatnaa attgcattgc ctgcgcattg 480
ttgtgcgggg cttcctgggtg ccccgancga agggcnacaa ccccgcgcca ggggtccnct 540
ctatgcattc ctntctgttc cgggtgttgn tgggcgggat ttgaaccgtg aancttgggtg 600
aatccgnttg gtgcattaag aacntaaccg ttctcgtca ggggcnnacc ggncccttnc 660
aatttcggaa aaangaacca aaanccccc ccnccaagga aacn 704

```

```

<210> 247
<211> 618
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 513, 541
<223> n = A,T,C or G

```

```

<400> 247
ggcgcgcagt gtgatggata tcgaattcaa cgaggtgtcg atgagcgcga acaatcgccc 60
tccttcatct ctacctgatg gtgaacttcg ctccctacagc cgagccaatg aagacgaagt 120
ggctgctgcc gaggatggga gtctcactag agcacgcggc gctggacaac tcctcgactt 180
gtacgcttcc ggtagcttag ccatttcagc tccactgacg acagagacgg agctggccac 240
tgccatctcg acgcagcggg acaaggagca gcttcgggcg ccgtatgcat cactcgaaga 300
gaaccaggaa gcagccggaa gcaggaggcg ctgcacggta caggcacttt cggcgcttca 360
gcggatccat cgggcggatc ccgtacgtca cttcttgcg caagaacatc caggacgtcg 420
aatcggtcgc cgaccggaat gccatcttct actcgtctct ccaggaccg gcgaaagcac 480
attgatgaca tgcagtgcct gcgcattgtt gtngcggcg tacttggtgc acacgagcga 540
nggcaacaaa cccgcgccc cgtgcgcgtc tatgcattcc tgttctgtcc ggggtgtgcat 600
ggcccgcatg tggaacct 618

```

```

<210> 248
<211> 622
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 276, 355, 356, 382, 387, 421, 426, 462, 474, 480, 483, 486,
498, 506, 527, 535, 553, 559, 579, 590, 616
<223> n = A,T,C or G

```

```

<400> 248
gcacgagagc ggatccgtgt gtgctgtgtg caacggatgc cgccggcagc ttggcgcccc 60
cggtgccgct gacaaccgtg gcggagctag aaactgccga agtgccgcac ggggatgtga 120
gggagtgtgt gtcggaggcc gctcgacttt tgttggcgga gggcgccggt ggtgccggtt 180
ctgtgagcgc cggtttgcaa gtcaggccct ttcggcgctt cagcggatcc atcgggccga 240
tcccgtagct gaccttcttg cgcaagagca tccacnacgt cgaatttggg gcggaaccga 300
acgccatctt ctactcgctc ttccagaacc cggcgaagca cattgacaac atgcnntgcc 360

```

```

tgcgcattgtt tgtgcggcgc tncctgntgc acacgaccga gggtagcaac ccgcgccagg 420
ntgccnctct acgcattcct gtctgcccgg tgtgcgtggc cnggatgtgg accntgagcn 480
ggngantccg ctggtgcntg aagacnttgc cgctctcgtc aaggccnacc gcccntcgcg 540
gcggaaaaaag gancaaaaanc cccccgcaa gaaccggcnc tgcaccgttn tcgcgcccct 600
gctgggctct tctcctttac gg                                     622

```

```

<210> 249
<211> 517
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 447
<223> n = A,T,C or G

```

```

<400> 249
cattcgagct cggtagccgg gatccgattg gtaaaggggg tgcggaacag ccagctgggtg 60
ttttcgggtgc ggccggggca gccacatcg ctgtggtcgt tggcgtagtg gatgcgatgt 120
gccgggacaa acgcgttttc caccacgatg tcatgactgc ctgtgccgcg caggcccagc 180
acatcccagt tgtcctcaat gcggtagtcc gccttgggca ccagaaaagt cacatgctcc 240
aggccaggcg tgccatcacg cttgggcagc agaccgccta gaaacagcca gtcgcaatgc 300
ttggagccgg tggaaaagct ccagcgaccg ttgaacctga atccgccttc cacgggctcg 360
gccttgccag taggcatata ggtcgaggcg atgcgcacgc cgttatcctt gcccacaca 420
tcttgcgtgg cctggtcggg gaaaaancgc cagctgccaa ggggtgaacg ccgaccaccc 480
cgtaaatcca ggccgtggac atgcagccct ttaccaa                                     517

```

```

<210> 250
<211> 215
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 2, 4, 190, 193
<223> n = A,T,C or G

```

```

<400> 250
nntncattgg gccgacgtcg catgctcccg gccgccatgg ccgcgggatt accgcttgtg 60
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 120
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 180
accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg accgcttgtg 215

```

```

<210> 251
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 12, 66, 111, 121, 127, 146, 153, 157, 169, 178, 180, 197,
206, 221, 222
<223> n = A,T,C or G

```

<400> 251  
 ngcgcccacc tngtgattga tggtcgttta ctatcaagta tgtacatctt gctctagaca 60  
 actccnattc agtgggaagaa attgggaaag tatcccggat aagtaatagg nattaggtct 120  
 nccttantgc ttggtgggat attccncaac tgntccngat cggatcagnc tcgtgtcngn 180  
 gaatgtgctc gatcgtnatt ctactnctga gcttctatcc nnacgtggcc t 231

<210> 252  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 11, 23, 38, 50, 56, 77, 91, 143, 190, 197, 210, 211, 222,  
 233, 237, 246, 250, 265, 271, 284, 291, 293, 299, 307, 316,  
 320, 348, 355, 362, 368, 373, 378, 388  
 <223> n = A,T,C or G

<400> 252  
 atgtatcanc nctgttggtg ttncatcttt tgcagtcngt tctaagggcn gataantatc 60  
 agagatgcta atgcatnttc tgccaggcca ncattgggtg cctatgcgta ctcttcttat 120  
 cttcctgaag agtcatctct ggnggatgtg ttccccctc tccacagtgt ttgcaagcgt 180  
 taccacgcgn tgtcggngcc gggaaggten ncacatccgg gnagacttcc ccncgntga 240  
 atcgtntctn gaatctccgg cgtctccct naacctcttg actnggacaa ngncctgnt 300  
 tcccctntgt gaactngtan ccgccccct ttccccctc agcctaancg ggaangaaga 360  
 cngggtcnat ctngggcncc acaagaant 389

<210> 253  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 8, 9, 27, 36, 63, 78, 81, 89, 92, 99, 114, 117, 126, 131,  
 147, 159, 161, 163, 184, 194, 200, 203, 208, 210, 224, 232,  
 237, 250, 251, 260, 269  
 <223> n = A,T,C or G

<400> 253  
 nggggccnna tgagcgcgcg taatacnatc actatngggc gaattgggta cgggcccccc 60  
 tcnagcggcc gccttttntt nttttttnt tntttttnt caaaacaccc tccnccntgg 120  
 atgganacgt nacctttctc taaccanatc ttcacaatnc nantctcagg cagccgcctc 180  
 aaanccgatg tcangttggn atntcaantn caatcttatt ttgngaatta anctganatt 240  
 gtggatggtn naccaatcan atacttgga tccgttgaac ccctgtgga 289

<210> 254  
 <211> 410  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 68, 280, 283, 284, 299, 300, 304, 342, 354, 368

<223> n = A,T,C or G

<400> 254

```
attgtgttgg gaacttgtag acagctatat caattgcagt gctatttctc tgaggtattg 60
aatctcantt attataattt tgaaatccaa ttggcttgga cttcattatt ttccaactaa 120
aaagatgatt gaaggattta tttgaaatgt gtaaagagta atatagattt tatgcttatg 180
tttccttgaa aaaagtaggt aaaattcttc tggaagtgtt actcctaaaa tacaaatgaa 240
catgtcaaga attacataaa ttctttaaac tatccttaan aannaatggc tctatgtann 300
gagngaccct tacagactat taagaattaa cttgcatggc anagactcat ttanattcat 360
gaaatggntc tcactttctt ggtaagatct ggcttggacg tttttggtaa 410
```

<210> 255

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 90, 217, 220, 258, 476, 479, 538, 547, 554, 566, 579, 621, 623, 635, 650, 666

<223> n = A,T,C or G

<400> 255

```
tttttttttt ttttcctgtg ccaggcacta taccactgtg ctaggtgcct tctttgcatt 60
acttcatttc ctcataagct ttctgaggan acagaaagct tgaggttcac gtagctagca 120
tctacataaa ttagttgcta aaaacataca atacgtcttc cggcaggctg tcattagtaa 180
ctgatactac tagttgataa tctcataaac ctagcanaan ctaccattta agctgaaaca 240
actgtcaata tcactaanta aaacttaaat ccataaatca actatattct aaaatctgac 300
ttcagttcaa ttaaaaaatc actagttgtt acctacctcc ttctgaaagc cagtacaagt 360
taaatgaaca actcccagat ttaacaaaca agtggcatct aaaaaaaaga tttaaaaaat 420
aatccactta catatattta aaatggcatt aataaaacaa aatttatcca ataacnaant 480
ggcaaaggaa ggtgtccaat tattacatgt tataaatctt taaattaaac ttttcttngg 540
tttttcttcc ctanaataaa tacaancctt tccccgccna accagaaaaa agcaaaaaac 600
aaaacccaaa aactcccagc ncngcttaaa aaacncaaaa aaaataaaan ctctattaaa 660
tgcccnaa 668
```

<210> 256

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3, 10, 12, 18, 32, 36, 42, 78, 81, 148, 174, 177, 204, 287, 299, 314, 341, 358, 365, 413, 436, 444, 468, 469, 475, 482, 485

<223> n = A,T,C or G

<400> 256

```
cgnaaccgtn cnttttttnat gtgcgccccg cncagnacca gngccgctac aggcgaaggc 60
cggaagcacg ggagaggnnt nggaaaaaaa agagtgttta caaagagcat attcgagag 120
ttgggatgag tgaaggggac cagaaggngc agcggtaggg acgcgtgaaa ggangcngcg 180
gagaaatgac agcaagaagg gganaagcac acgaaaaggc agtatcctcc tccccctttt 240
tcgaggactg ccgcattctt gttttctgcc cattccagtc accgaanaag atcccaaana 300
```

```

aagaagaaaa gaancagagg tgcacttcgc ttcataatttc nctcgctttc ttttctgnct 360
tcacnagttc tgcaggattg cccttgctct cttccgagca catctacgca cgnatgaggc 420
tcggcagggtc aagccnacaa aacnctcgca ctctctttt tctttgcnnng tctgngtggt 480
angngng                                         487

```

```

<210> 257
<211> 502
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 11, 14, 18, 24, 26, 29, 35, 59, 81, 111, 118, 121, 430, 498
<223> n = A,T,C or G

```

```

<400> 257
cctttgaaag nccngctnaa ttcngnganc cccngatca gcaccaggga gctacaacna 60
aggccggaag caggggattt ngccggaaaa aaaagagtgc ttacaaagag nttatccnca 120
nagatgggat gagtgaaggg gacgagaagg tgcagcggtg gggacgcgtg aaaggaggca 180
gcgagaaaaat gacagcaaga aggggagaag cacacgaaaa ggcagtatcc tcctcccccc 240
ttttcgagga ctgccgcctc tttgttttct gccattcca gtcaccgaaa aagatcccaa 300
agaaagaaga aaagaaacag aggtgcactt cgcttcatat ttcgctcgtt ttcttttctg 360
tcttcacaag tctgcaggat tgcccttgct ctcttccgag cacatctacg caggtatgag 420
gctcggaggn caagccaaaa aaacgcttgc actcctcttt ttctttgcgt gtctgtgtgt 480
atgtggaatt ccgcggncc gc                                         502

```

```

<210> 258
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 15, 18, 27, 28, 33, 41, 324, 446, 447, 449, 483, 498,
506, 509
<223> n = A,T,C or G

```

```

<400> 258
actcgnact cgatncanta caagagnnta tgnattcgaa ngtgcccccg catcagcacc 60
agggagctac aacgaaggcc ggaagcaggg gagagggccg gaaaaaaaaag agtgcttaca 120
aagagcatat ccgcagagt gggatgagtg aaggggacga gaaggtgcag cggtagggac 180
gcgtgaaagg aggcagcga gaaatgacag caagaagggg agaagcacac gaaaaggcag 240
tctcctcctc ccccttttct gaggactgcc gcatctttgt tttctgccc ttccagtcac 300
cgaaaaagat cccaaagaaa gaanaaaaga aacagagggtg cacttcgctt catatttcgc 360
tcgctttctt ttctgtcttc caagtctgca ggattgccct tgcctcttcc cgagcacatc 420
tacgcacgta tgaagctcgg aggtcnngnc aaaaaaacgc ttgcaactcct ctttttcttt 480
gcnagtctgt gtgcatgngg gaaatnctna                                         510

```

```

<210> 259
<211> 292
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc\_feature  
 <222> 3, 4, 5  
 <223> n = A,T,C or G

<400> 259  
 gannngagtc acgaaaaggc agtatcctcc tcccccttt tcgaggactg ccgcatcttt 60  
 gttttctgcc cattccagtc accgaaaaag atcccaaaga aagaagaaaa gaaacagagg 120  
 tgcacttcgc ttcatatttc gctcgtttc ttttctgtct tcacaagtct gcaggattgc 180  
 ccttgctctc ttccgagcac atctacgcac gtatgaggct cggagggtcaa gccaaaaaaa 240  
 cgcttgcaact cctctttttc tttgcgtgct tgtgtgtatg tggaattcct tg 292

<210> 260  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 307, 313, 315, 321, 409, 420, 449, 452, 487, 492, 505, 536,  
 546, 547, 561, 564, 572  
 <223> n = A,T,C or G

<400> 260  
 gcacgaggtt ggggtgtact gtgtataata actccagatc cttgaccaag tttggagagt 60  
 cacttatggc catttgaaac caaatgaagg atcaaaggac taattatttt gaatacctct 120  
 gagtgttttc cccaagcttg agaagagttt cattcagcta taaaatgctc attgtgcaaa 180  
 tgagtgtttt ccatgctgta taattaaagc attgccttta ataataatttt attaccttta 240  
 gcttgctctt ttaatttgag gaaaatccaa acaatttaaa gtaaaacgtg ataaagacag 300  
 tttttcngga gananaaggg nagatcgcta tgtttattcc acttaatatc tatatcaaat 360  
 atttgatca aaagcagact ctcactttaa aaatatctct ctaatggcna gaatcttttn 420  
 cctagattga gagtcagagc tcacatagna tnactgctgg taaatagaca cttagactat 480  
 agagctnagc tnaagttcca actanccaac tgcatttctg aatatgcttt ttattnaaag 540  
 gccagnnctt ttgccttttt nccnccctaa tnccttctat tg 582

<210> 261  
 <211> 783  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 137, 425, 445, 489, 500, 552, 554, 559, 570, 584, 587, 599,  
 615, 618, 626, 633, 645, 648, 649, 658, 669, 679, 684, 691,  
 698, 705, 718, 726, 727, 741, 753, 756, 765, 767, 770  
 <223> n = A,T,C or G

<400> 261  
 gcacgaggca aaatacagag ggtattttac catggacagg caaccattt ttccaggaca 60  
 actctttgca gcagagagct attctctttc ttttgcctta cactctcaac ctcaactctc 120  
 gagtgtctgc atcctanttt tccatggcca taagataagg aaccatgagt gttactctag 180  
 atgaggctgt ttcattgtgg gagctcatcc aggatccaag gtagattcat cagaagggtta 240  
 agtataggag tggaaccca aatctctact tttattttga ggccttctct cctcaatttt 300  
 aaattgtaaa atcaacttta aaactgggta tctgatggcc agttaaaga ctgggtatct 360  
 gattgccagt taagagatgg tcatttatgc tcaccacat tctcaagacg cagggtgagg 420

```

gacangcttg ctggggaatg ctgancaaat cccccaatgc cttcaggatt ctgggaatgg 480
tggctctgnt ttaaactggg tgacttttac aaagagccta cccgtcatgg ggggactggg 540
aagaaaaccc anangcagnt tctggcccan ggttacaccc ccanggnatg cttgaaggnt 600
ttttggacat acctnttnc cccctnttac tgnntcatta gggcntcnc aaccaantt 660
tccaagttnt ggcccttcna aaantttttt nttttcctt tccanggacc cccctggntt 720
cctggnnccc cctttttata nccaaccttg ccnggnattt tttcncnttn aaagggaat 780
aat 783

```

```

<210> 262
<211> 741
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10, 98, 429, 441, 553, 567, 576, 599, 601, 615, 621, 635,
646, 649, 655, 659, 667, 674, 688, 708, 725, 731, 733
<223> n = A,T,C or G

```

```

<400> 262
tgaaccctan tgggcccggc cccctcgagt cgacggtatc gataagcttg atatcgaatt 60
cggcacgagt gtatatcttg ttattatacc ccagattnaa gtgtatattc ttaggcagta 120
gttctgggta acatccttac tacataaaat ccacttacta ttttaagtatt attctaacag 180
gaggtagaat agctgcctta aaaaatgtag tgatcgaatg gcagtttttc tgctgaatgg 240
aaattactga cacaaaattt ggttttggga gacattttcc tccttggtgt tgagttttcc 300
cattcacgga tagggcataa agcttggttt atagttgagg ggtgcaaaaag gggaatagga 360
ttgggaaaat acagtgttcc agcaaaggtc tgacaaggta catcttgagg aggattccta 420
ttctgctang tggcactgta ngtcttgaaa tactgtgtac tttccagaca aaggatagag 480
aaaaagacct tcaactgggtg ggggagaaga aaacccttgt tcctagaaaa atcacaaaaa 540
aggcatcctt tancctatat tcccagnttt actggngcat ttgcttgatg tgactgacnc 600
ngattatttc ctttnactgg naaaaattcc tgccnctttg gatatnaang ggggnaccng 660
gaaaatnggg ggcnttgggg aaggaaanaa aaaaaattgg agggaccnaa ctttggaana 720
tggngtgctt nangccttaa g 741

```

```

<210> 263
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 38, 316, 318, 335, 385, 414, 420, 436, 437
<223> n = A,T,C or G

```

```

<400> 263
ggcacgagag aatgtgttca cagacactat tttatannta tctgatgtgt actgtgtctg 60
gtggatgtga aagccatact tcttaaactc gatttgaaaa gcaaactctga ttatcacagc 120
cataattaaa tttggccagc cttccttcct ccctccctcc ttcacttcct tccttccttc 180
cgctctgtgc cgaattcggc acgagcctga cctcactacc aaaaaaaaaa aaattcaaag 240
tgcttgaggt ttccaggcat tcttagctct atttacttac tttccacctc aaatggcctt 300
agaattcaaa ttctgnanaa aatggattgc catanataat ccaatgaaaa tgggtcatat 360
tttgccatta atagaatcac agtcnacaag ggactaatag aattagtcac ttangtatcn 420
ttagatttgg gagacnn 437

```

<210> 264  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 674, 689, 698  
 <223> n = A,T,C or G

<400> 264  
 gcacgagcac cccaagggtt taggacaaaa tgggatgagt gaattcatgg cttgacagac 60  
 tgaacagaaa aatgaggctc cgtgctccat attcatgtgc atctgcccct catggtgaca 120  
 tgctaattgg ttggccggtg cacaagacaa ggaagtgcag gtttcctgtt gctcacacag 180  
 tgcttcctgt ctgctgtggc aggagccggg aggaagggag cgagccaaga ggggtgctgc 240  
 ccaccgaaa cgatggcgcg aggcgcgaga gctaaatggg ggcctctcca gggagtgtgc 300  
 tgttcacggc tccatcgctg ttagtaagta tcttgtgatt tcggaattta aatgagggtg 360  
 tgtttaacct gcataacatc tggcttttaa aatctgactt tattttcctt ttatttctgt 420  
 gcacggctc aggcacactt agtgggtggt taggtgttga agtcagggtt ccaaacagca 480  
 cgccctctct ttattctcag gctgogtgtt tcattgattc tgaaggtcag atggctgtgt 540  
 tcaagttctg ttagtatatt ggtgtcagaa atgaaaagat gatgtaaccc ttataactt 600  
 cttaaaggct catatcatgt caggaaatta acctgtacga gttatggaca aatgcccatc 660  
 ctgatgattt tcanccatga aaatgaatna aagggganaa gggcca 706

<210> 265  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<400> 265  
 ggcacgagca gcattacggt ttatacacat gtccacaact cagcattgct ttcaaaatag 60  
 gaacacttta ttagtaaaga ggaagaaatt gcctaaacag actcagtgtc tttcccataa 120  
 caatcatctg ccaagccgca ggcctaacca ggaaatcca tttccttttg gcgttgtgtc 180  
 ctccaccaac agatacaacc ctgatgccaa atgttgtatg gttttaggtt gttgtgagcc 240  
 aatgagggca tgcctagggc caaaggctgc cctttggaat gagggcaagg tcgtagactc 300  
 catcaaaaca caaatgcac ctcctccaaa atcaaatgct caacacatgc agcctttcgt 360  
 atgcccatct cccctttact cattttcatg getgaaaatc atcaggatgg gcatttgtcc 420  
 ataactccta caggttaatt tcctgacatg atatgagcct ttaagaagtt ataaaggggt 480  
 acatcatctt ttcatttctg acaccaatat actaacagaa cttgaacaca gccatctgac 540  
 cttcagaatc aatgaaacac gcagcctgag aataaagaga gggcgtgctg tttggtaacc 600  
 tgacttcaac acctaagcca ccactaagtg tgccctgagc gatgcacaga aataaaagga 660  
 aaataaagtc agatttttaa aagccagatg ttatgcaggg taaacacaac ctcatta 717

<210> 266  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 291, 296, 302, 308, 315, 323, 325, 335, 351  
 <223> n = A,T,C or G

<400> 266

```

ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agttttccaaa gggccataaa ctgcacatat cagtactatg tgcaattaac acataattta 180
ttatgaaaat gtggacatgc caggtaagta aggggattta ggttgacttt ttataatact 240
ttaaatttga aatgccatth ctgtggattg gatgacatct tccaggtgct ntaatnctgg 300
gntacctnct gatanatcct gananaaaga ggtancacca gcgtctatca nacctcaata 360
ca 362

```

```

<210> 267
<211> 692
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 153, 159, 160, 331, 362, 375, 393, 435, 438, 448, 450, 451,
460, 480, 486, 497, 509, 523, 530, 538, 539, 550, 669
<223> n = A,T,C or G

```

```

<400> 267
ggcacgaggt tagatttaac ttccacagat gactcagcag aggataacta ctaatcagag 60
tacaacatca aaactgtaac cagtataatc actggattat gagcaactca aaatagctcc 120
agttttccaaa gggccataac tggccctttt aanacttttn gcaattaaca cataatttat 180
tatgaaaatg tggacatgcc aggtaagtaa ggggatttag gttgactttt tataataactt 240
taaatttgaa atgccatthc tgtggattgg atgacatctt ccaggtgctt taatttggtt 300
tacctcctga tagatcctga cagaaagagg naggaccagc gtctatcaaa cctcaatata 360
gngtgtgaaa cacangagag cctgcttttg tcnacacggg gaaacacatt gttatcacia 420
cacacaaaag gcaanctncc aatggggnan ncttacctgn cctctcatat tgggggcaan 480
gaaaangggg cccccanatg gctgagtana tccccaaaaa ccnccactan tggtcagnnt 540
gcttccccan acagccagat gactgaatth agcccaagct gcagtctcaa aaccagcttt 600
ctgacaatca gtaacaagaa catactggtc tgttgacgtg agctcaagtg ttgggtgttc 660
agtcaaaaanc catggatgcc aatcatctcc ca 692

```

```

<210> 268
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21, 100, 331, 382, 403, 420, 432, 448, 461, 481, 554, 555,
565, 591, 594, 597, 605
<223> n = A,T,C or G

```

```

<400> 268
cgtgccgaat tcggcacgag ngcacatatc agtactatgt gcaattaaca cataatttat 60
tatgaaaatg tggacatgcc aggtaagtaa ggggatttan gttgactttt tataataactt 120
taaatttgaa atgccatthc tgtggattgg atgacatctt ccaggtgctt taatttggtt 180
tacctcctga tagatcctga cagaaagagg tagcaccagc gtctatcaaa cctcaatata 240
gttgtaaaac acagagagcc tgcttgcccta cacatggaga aacattgtta tcacaagaca 300
cagaaggcaa acttccaatc tggcatactt ncctgtcctc tcatatttggt ggcaatgaga 360
atggtggacc agatggcttg antagatgcc aaagaacacc canactgggc agcatgcttn 420
cccagacagc cngaagactg aaatttantc ccagctgcag ncttaaacc tttttttgac 480
nttccgtaac cagaccatac ttttttttct gatgcttttc ttaacttcat cttttccaat 540

```

taaattcatt agtnnaaccc taaanggggc ccgttttccg aaaaattttc nttntntntt 600  
ccccc 605

<210> 269  
<211> 535  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 9, 185, 205, 213, 216, 220, 237, 251, 298, 304, 307, 331,  
352, 447, 497, 500, 529  
<223> n = A,T,C or G

<400> 269  
gcacgaggng caaccccagg gtgggggtctc tgggatgaac ctggagacct gagcttgcac 60  
agcttccttg gtaaattgag gaggcattga ccacaagatt gccaaagctcc tttctatcca 120  
aacttgatat tgtagattc catgatccag ttcattcacgg ttgatggctg aatctcatgc 180  
actanaaaaa ggtaatatata aaganaaaaa tanaangatn ttcaagttag tataaanacc 240  
tttaattctca ntctttctag ttcaaagaga cggaacaatg agagatgctg gttcatanag 300  
ctgntanatt taacttccac agatgactca ncagaggata actactaatc anagtacaac 360  
atcaaaactg taaccagtat aatcactgga ttatgagcaa ctcaaaatag ctccagtttc 420  
caaagggcca taaactgccca tatcaantac tatgtgccat taaccataa tttattatga 480  
aaatgtggac atgccangtn agtaagggga tttagggtga ctttttatna tactt 535

<210> 270  
<211> 803  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 677, 687, 768, 772, 786, 790, 793  
<223> n = A,T,C or G

<400> 270  
gcacgagggc aaccccaggg tgggggtctct gggatgaacc tggagacctg agcttgcaca 60  
gcttccttgg taaattgagg aggcattggac cacaagattg ccaagctcct ttctatccaa 120  
acttgatatt gttagattcc atgatccagt tcatcacggg tgatggctga atctcatgca 180  
ctagaaaaag gtaatatataa agaaaaaaat aaaaagatat tcaagttagt ataaagacct 240  
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300  
tgttagattt aacttccaca gatgactcag cagaggataa ctactaatca gagtacaaca 360  
tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420  
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480  
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540  
tgaaatgccca tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600  
ctgatagatc ctgacagaaa gaggtagcac cagcgtctat caaacctcaa tacagttgta 660  
aaacacagag agcctgnttt gcctacncat ggagaacatt gttatcacia gacacagaag 720  
ggaacttcca tctggctact tacctggctt tatttttggg gcaatganaa tnggggggacc 780  
aatggntgan tanatgccaa aaa 803

<210> 271  
<211> 836  
<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 623, 682, 718, 768, 781, 785, 787, 794, 804, 811, 816, 822, 831

<223> n = A,T,C or G

<400> 271

```
gcacgagggc aaccccaggg tggggtctct gggatgaacc tgggagacctg agcttgcaca 60
gcttccttgg taaattgagg aggcattggac cacaagattg ccaagctcct ttctatccaa 120
acttgatatt gttagattcc atgatccagt tcatcacggt tgatggctga atctcatgca 180
ctagaaaaag gtaatatata agaaaaaaat aaaaagatat tcaagtgagt ataaagacct 240
ttaatctcag tctttctagt tcaaagagac ggaacaatga gagatgctgg ttcatagagc 300
tgttagattt aacttcacac gatgactcag cagaggataa ctactaatca gagtacaaca 360
tcaaaactgt aaccagtata atcactggat tatgagcaac tcaaaatagc tccagtttcc 420
aaagggccat aaactgcaca tatcagtact atgtgcaatt aacacataat ttattatgaa 480
aatgtggaca tgccaggtaa gtaaggggat ttaggttgac tttttataat actttaaatt 540
tgaaatgcc a tttctgtgga ttggatgaca tcttccaggt gctttaattt ggtttacctc 600
ctgatagatc ctgacagaaa gangtagcac cagcgtctat caaacctcaa tacagttgta 660
aaacacagag agcctgcttt gnctacacat ggagaaacat tgtatcaca gacacagnaa 720
ggcaacttcc atctgggata ctacctgtct ctctatttgg ggcatganat ggggacaatg 780
ntgananatg caanacacca atgngagctg nttccnacag cnatatgatt ntccat 836
```

<210> 272

<211> 203

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 19, 42, 46, 53, 62, 63, 74, 84, 89, 109, 112, 119, 120, 128, 133, 139, 144, 148, 176, 187, 194, 197, 201

<223> n = A,T,C or G

<400> 272

```
ggagaattgg gcccgctcang ggtgcattct gcacacacctg anttcnaaat ctnagtcaat 60
cnnctgtacta atantatcaa catnatttna acctgatctc cactgcttng tnattttcnn 120
ttcactgncc ctntcactng aacntctntt cacacagcca cccccatta tctggntggc 180
acctcnccca aatncncct naa 203
```

<210> 273

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 17, 55, 80, 96, 156, 164, 171, 176, 180, 204, 211, 224, 242, 253, 265, 282, 284, 292, 313, 314, 319, 329, 338, 340, 348, 357, 359, 370, 377, 390, 396, 407, 420, 437, 439, 440, 456, 457, 479, 490, 520, 524, 541, 546, 557, 571, 575

<223> n = A,T,C or G

&lt;400&gt; 273

```

attcggggccn ctggatncgt gctcgagcgg ccgcccgtgt gatggatata tgcanaattc 60
ggcttctgga gagagctttn tttttgatgg ttgcangtac tctcgatgga gttgggtgggt 120
gtggttatct ctctctgggt gtctttctgt ataaanttct tgcnctgact ncctanctcn 180
cctccccctg gtccttccct tagngtaaca nctggtaatc cctntcttct ttgctctcct 240
tncttctcct gancgatttc ctctntttgt ccactctcag gnanaaccct gntggtcagt 300
gttcatgact tcnngaagnt cgaccgcna aatagggncn cacggatnat gttgaancng 360
ggaaggggagn gtccaanttc tctgttccan aggctnagcc tagaganaat gatggggagan 420
ggtttactga gatcatngnn tcttctcgaa gatatnnttt aggggtggtcc cccataagng 480
aatttctcan cttcaaactct tctaatacat tactgaacan ctgncatttg ttacgccaca 540
nattgnaatt ctccatntct ttttagaaac nattncaagg tcatttattt ccct 594

```

&lt;210&gt; 274

&lt;211&gt; 229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

```

<222> 24, 31, 38, 49, 55, 62, 63, 75, 86, 113, 116, 122, 127, 142,
148, 150, 162, 171, 176, 184, 185, 190, 201, 207, 212, 215,
218, 227

```

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 274

```

ctactcactg tccggccatt tggncctctg natgcatnct caagcagcnc gccantatga 60
tnnatatctg cacanttcag cttctngaga aaactatggt ttaaacagtt gcntanactt 120
anaatanaaa tcgagtaagg tntagatnan tctctaacga tngaattatt ntacanaggg 180
gtanncgatn accaggagta nctaganttg ancancancc taggtcnga 229

```

&lt;210&gt; 275

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

```

<222> 8, 18, 25, 34, 36, 87, 139, 140, 165, 168, 187, 222, 237,
262, 268, 271, 286, 288, 296, 301, 315, 329, 338, 356, 359,
365, 368, 402, 416, 445, 490, 500, 522, 528, 538, 542, 550,
562, 565, 569, 577, 581, 587, 589, 597, 610, 640

```

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 275

```

atatctgntg aatacggntt cctgnaaaaa ggtntnattt agatgggtga gtccgactca 60
gcgatgcgac ttgggtgggtg tggtcantct cttatgggtg agattgttca tgatatcatg 120
ccctgagatg cctggactnn cctcaccgga gatcctagac ggtgntancc cctgagagtc 180
tctctontcc tgctctccta acttctccta atgatccctc cnattgtcta ctgtccnatt 240
gaacccttct tgcttatgta tncaatcntt nacgggtgtcc ctgctnantt tttganacga 300
ngctcataat ggacngggga aggatagtnt gaataatntc ctgtataccc acgccnacnt 360
ctacnctntg atctgacacg gtatactgat ttgtgctgtt cncttcacca ttccantttc 420
taccttccgc tcatatgctc tgtangctac accctctgtg actgctttct cagttacgtg 480
caacaaggtn ttcatatctn gaactcttac accattctag anggatcncc cctcgganaa 540
antttggaan aacaagcaag ancanaatnc ctctctngtg ntacacnanc cggcttncgt 600

```

atcctcgtnn aaggaattcc ccgctttcct gggctttaan tctcctaaac t 651

<210> 276  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 18, 24, 27, 35, 41, 49, 55, 60, 86, 87, 92, 96, 101, 115,  
 140, 156, 157, 166, 188, 189, 197, 206, 210, 222, 254, 256,  
 264, 265, 288, 289, 293, 300, 305, 311, 312, 320, 332, 333,  
 343, 362, 366, 371, 384  
 <223> n = A,T,C or G

<400> 276  
 accccccccg aattacgntg gccnatntaa aagtncatca ngcctccang caacntatcn 60  
 ttctattacc acccacactc ctgttnnggg anggangtgg naatccttca ccatnctaata 120  
 gtatgtggtg ctctcatgcn ggtacgtata atctanncgt cccctnaaat cggatgcttc 180  
 tgtaatcnnc agtcacnaaa ccacanggan caactgaaac angatttggc taacagccaa 240  
 tgtctgggcc ctctcnaatc cctnnaatat ctctacacc tgtagtanna atnaactacn 300  
 ctacnctatt nnacacacgn tttaggttgt annaccaagc ccntattgag tgaaatcggt 360  
 tntatngtat naaatgccaa aagntgcggt aa 392

<210> 277  
 <211> 212  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 17, 22, 25, 29, 38, 57, 61, 64, 73, 80, 108, 110, 115,  
 181, 186, 189, 200  
 <223> n = A,T,C or G

<400> 277  
 ggtttgcggg natgaanttt gnaanaatna actttagnga taaccacccc accaatncct 60  
 nctnagtatt tgncaacctn aaaactacag ctctctccag atagactntn ccttnctgat 120  
 ttcaactctc cttggactgg tcagcctgaa ggggtgtaat gactcaccaa cgctactaat 180  
 nccttnttna ctgtgccttn attttttcgc ct 212

<210> 278  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1, 2, 3, 37, 55, 60, 63, 78, 97, 101, 142, 145, 150, 170,  
 186, 189, 202, 204, 216, 243, 247, 251, 256, 262, 267  
 <223> n = A,T,C or G

<400> 278  
 nnntccatcc taataccact cactatcggg ctccaancgg ccgcccgggc acgtntcttn 60

```

tgngacagga tctgaatnaa ggggtggttg taacttnact naaaattctg aaatgatcct 120
gcacagaca gggttctccg tntanaatan agtttccctg ttagttatcn agcctgggca 180
ggggangana gattcgagga cntntgaaat gaaggnatta ttaggatgg gtgactcatt 240
ccnacnttc ncgctnacca gnccganga 269

```

```

<210> 279
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 12, 19, 32, 34, 51, 52, 60, 65, 68, 72, 128, 132, 142,
144, 149, 174, 181, 182, 203, 208, 209, 244, 247, 254
<223> n = A,T,C or G

```

```

<400> 279
gttggtgant cngtttgng tcttctggt gntnggtgtt tgggtgtgtg nnttggtgtn 60
gggtngtntt tntggagaga gttgtagttc gtgagggttg cagtgtactt actatggagc 120
ctaaggangt gngctaactt anantgatna ctttgctcat actgccctgc cctnaatgcc 180
nngcttgctt caccctggtg ccnaaccnna tcgaacacct aacagtctag taggcttctt 240
gctntancag actnctcttg aggtatc 266

```

```

<210> 280
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 15, 21, 24, 36, 41, 72, 97, 112, 114, 117, 142, 151, 167,
176, 177, 178, 224, 231, 238, 247, 277, 285, 293, 299, 304
<223> n = A,T,C or G

```

```

<400> 280
acactgtnag gtgnttgga ntgntgtagg catagncttt ntggcacaga gttggagccg 60
tgaggcatag cntgtactta ctatggagcc taaggangga gctaacttat antnatnact 120
ttgctcatat tgccctgctc tnaatgccta ngcttgctc accctgntgc cttacnnnat 180
cgaacaccta cgcggtctat aggttcttg ctctatcagg actnctcttc nagcttcntc 240
gcctcanttg actcactgtg ctcggtcggt ctactngat ccagncgctc atnaacctna 300
cttnggacgc aggtcat 317

```

```

<210> 281
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 47, 111, 125, 140, 147, 150, 154, 159
<223> n = A,T,C or G

```

```

<400> 281
gnggtcatat tatacatcta aggcattggcc aactccacgc cattatnaat tccatcgtag 60

```

```

tgtccgcagt cactacttat aacctagatt aatagtgcct ggccccggac ngctctgtgca 120
atctnccgcc ataccaattn cgatccncan accncgatna cactcctcct tact 174

```

```

<210> 282
<211> 169
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 73, 108, 113, 115, 146, 161
<223> n = A,T,C or G

```

```

<400> 282
atcgagctt gtacgatcgt catataacgc gcatgtgcgg atcgcttcag cgccgcccga 60
ctgtcagaag gangagatct tttttatcac ttgtttgttt gactatanat aanancgact 120
acagcattga tgtgtgtcct caaganttgt ctgggtctga naaagctga 169

```

```

<210> 283
<211> 157
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3, 5, 36, 50, 67, 80, 87, 130, 133, 139, 145
<223> n = A,T,C or G

```

```

<400> 283
ggntntctaa gatcgagctt gtacgatcgt catatnacgc gcatgtgcgn atcgcttcac 60
gtcgccnggc tgtccaggan atgcatntca acataatgtg cactctatat ggttattgat 120
taatacgagn tangagcana tatcngatac aacacaa 157

```

```

<210> 284
<211> 133
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3, 11, 21, 36, 37, 92, 102, 122
<223> n = A,T,C or G

```

```

<400> 284
ggngtggtgt nagatacgca ngctgggacg aatcgnttca tagtacggcg catgtgttga 60
tcaattctga aaatccatcc cggcgcgctc ancatgcact anagggcaat cgcctatatg 120
antcgtatta caa 133

```

```

<210> 285
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc\_feature

<222> 1, 3, 6, 26, 31, 35, 38, 55, 57, 62, 68, 77, 79, 104, 107,  
119, 120, 124, 129, 130, 136, 146, 149, 156, 161, 165, 172,  
179, 191

<223> n = A,T,C or G

<400> 285

```
ntntgngtga tgatacccaa gctggntacc nactngantc caattaccgg ctcantntgc 60
tngaaacngc ttcgatngnc tcctggcatg tacttgaaac aggntanata tctaatagnn 120
tacngtgtnn ttttcnatca tacagnttnt atattncact ncctnccatt cntttctant 180
ctctctctcc ntat 194
```

<210> 286

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 6, 7, 29, 41, 66, 73, 86, 93, 108, 128

<223> n = A,T,C or G

<400> 286

```
gaggggnntat gataccaagc tggtagcanc ccgtcactat nacggcccag tgtgtggatc 60
cgctanctgg tcnogcgatg tctacncaca cgngaactgc ctctcgcnaa gatctcctct 120
cctctccnaa gaga 134
```

<210> 287

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 26, 78, 83, 101

<223> n = A,T,C or G

<400> 287

```
tngggatatat ccagttgtac actggncata tacgcgcatt atgatcgttt cacgcccgga 60
gtacggcatc attacganat ggnctcattc gtttaccttt ntcgctggac acaagcgtc 119
```

<210> 288

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4, 13, 39, 44, 107, 122, 158, 162

<223> n = A,T,C or G

<400> 288

```
gggntgagat acncaagttg gtacgagtcg gatcatatna cggncgccat tttctggaat 60
ccgcttacgt ggtcccgccg aagtactttt tcatgccttg caaaatngcg ttactgcact 120
```

ancttgctta acctatgagt ggggtctttc atacccttc tntcatggaa 170

<210> 289  
 <211> 126  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 19, 24, 46, 74, 84, 86, 109, 121  
 <223> n = A,T,C or G

<400> 289  
 ggccaattgg ggcctctana tgcntgctcg aacgggcgcc aatttnatgg atatctccaa 60  
 aattcggctt accntggctg cggncaagt acttaactca atccatctnt cactcaggat 120  
 naatgc 126

<210> 290  
 <211> 126  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 19, 24, 46, 74, 84, 86, 109, 121  
 <223> n = A,T,C or G

<400> 290  
 ggccaattgg ggcctctana tgcntgctcg aacgggcgcc aatttnatgg atatctccaa 60  
 aattcggctt accntggctg cggncaagt acttaactca atccatctnt cactcaggat 120  
 naatgc 126

<210> 291  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 291  
 cacatgtgca tccaggggag tcagttc 27

<210> 292  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 292  
 cgttagaatt catcaattcc tccgaagctc aaac 34

<210> 293  
 <211> 702  
 <212> DNA  
 <213> Homo sapiens

<400> 293  
 atgcagcatc accaccatca ccaccacatg tgcattccagg ggagtcagtt caacgtcgag 60  
 gtcggcagaa gtgacaagct ttccctgcct ggctttgaga acctcacagc aggatataac 120  
 aaattttctca ggcccaattt tgggtggagaa cccgtacaga tagcgctgac tctggacatt 180  
 gcaagtatct ctagcatttc agagagtaac atggactaca cagccaccat atacctccga 240  
 cagcgctgga tggaccagcg gctgggtgtt gaaggcaaca agagcttcac tctggatgcc 300  
 cgcctcgtgg agttcctctg ggtgccagat acttacattg tggagtccaa gaagtccttc 360  
 ctccatgaag tcaactgtgg aaacaggctc atccgcctct tctccaatgg caggttcctg 420  
 tatgccctca gaatcacgac aactgttgca tgtaacatgg atctgtctaa ataccccatg 480  
 gacacacaga catgaagtt gcagctggaa agctggggct atgatggaaa tgatgtggag 540  
 ttcacctggc tcagagggaa cgactctgtg cgtggactgg aacacctgcg gcttgctcag 600  
 tacaccatag agcggtatct caccttagtc accagatcgc agcaggagac aggaaattac 660  
 actagattgg tcttacagtt tgagcttcgg aggaattgat ga 702

<210> 294  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 294  
 Met Gln His His His His His His Met Cys Ile Gln Gly Ser Gln  
 1 5 10 15  
 Phe Asn Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe  
 20 25 30  
 Glu Asn Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly  
 35 40 45  
 Gly Glu Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser  
 50 55 60  
 Ser Ile Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg  
 65 70 75 80  
 Gln Arg Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe  
 85 90 95  
 Thr Leu Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr  
 100 105 110  
 Ile Val Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn  
 115 120 125  
 Arg Leu Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg  
 130 135 140  
 Ile Thr Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met  
 145 150 155 160  
 Asp Thr Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly  
 165 170 175  
 Asn Asp Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly  
 180 185 190  
 Leu Glu His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr  
 195 200 205  
 Leu Val Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val  
 210 215 220  
 Leu Gln Phe Glu Leu Arg Arg Asn

225

230

<210> 295  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<400> 295  
 Met Val Cys Gly Gly Phe Ala Cys Ser Lys Asn Cys Leu Cys Ala Leu  
 1 5 10 15  
 Asn Leu Leu Tyr Thr Leu Val Ser Leu Leu Leu Ile Gly Ile Ala Ala  
 20 25 30  
 Trp Gly Ile Gly Phe Gly Leu Ile Ser Ser Leu Arg Val Val Gly Val  
 35 40 45  
 Val Ile Ala Val Gly Ile Phe Leu Phe Leu Ile Ala Leu Val Gly Leu  
 50 55 60  
 Ile Gly Ala Val Lys His His Gln Val Leu Leu Phe Phe Tyr Met Ile  
 65 70 75 80  
 Ile Leu Leu Leu Val Phe Ile Val Gln Phe Ser Val Ser Cys Ala Cys  
 85 90 95  
 Leu Ala Leu Asn Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp  
 100 105 110  
 Asn Asn Thr Ala Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys  
 115 120 125  
 Cys Gly Phe Arg Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys  
 130 135 140  
 Val Lys Ser Asp His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu  
 145 150 155 160  
 Tyr Ala Gly Glu Val Leu Arg Phe Val Gly Gly Ile Gly Leu Phe Phe  
 165 170 175  
 Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn  
 180 185 190  
 Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu  
 195 200

<210> 296  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 296  
 atggtttgcg ggggcttcgc gtgttccaag aactgcctgt gcgccctcaa cctgctttac 60  
 accttggtta gtctgctgct aattggaatt gctgcgtggg gcattggcct cgggctgatt 120  
 tccagtctcc gagtggtcgg cgtggtcatt gcagtgggca tcttcttggt cctgattgct 180  
 ttagtgggtc tgattggagc tgtaaaacat catcagggtg tgctattttt ttatatgatt 240  
 attctgttac ttgtatttat tgttcagttt tctgtatctt gcgcttgttt agccctgaac 300  
 caggagcaac agggtcagct tctggaggtt ggttggaaca atacggcaag tgctcgaaat 360  
 gacatccaga gaaatctaaa ctgctgtggg ttccgaagtg ttaacccaaa tgacacctgt 420  
 ctggctagct gtgttaaaag tgaccactcg tgctcgccat gtgctccaat cataggagaa 480  
 tatgctggag aggttttgag atttgttggt ggcatgggcc tgttcttcag ttttacagag 540  
 atcctgggtg tttggctgac ctacagatac aggaaccaga aagacccccg cgcgaaatcct 600  
 agtgcattcc ttgga 615

<210> 297  
 <211> 1831  
 <212> DNA  
 <213> Homo sapiens

<400> 297  
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 gccccgcctg ggccaggccc aaaggcaagg acaaagcagc tgtcaggga cctccgccgg 120  
 agtcgaattt acgtgcagct gccggcaacc acaggttcca agatggtttg cgggggcttc 180  
 gcgtgttcca agaactgcct gtgcgccctc aacctgcttt acaccttgg tagtctgctg 240  
 ctaattggaa ttgctgcgtg gggcattggc ttcgggctga tttccagtct ccgagtggtc 300  
 ggctgtgtca ttgcagtggg catcttcttg ttcctgattg ctttagtggg tctgattgga 360  
 gctgtaaaac atcatcaggt gttgctatct ttttatatga ttattctgtt acttgatatt 420  
 attgttcagt tttctgtatc ttgcgcttgt ttagccctga accaggagca acagggtcag 480  
 cttctggagg ttggttgga caatacggca agtgctcgaa atgacatcca gagaaatcta 540  
 aactgctgtg ggttccgaag tgtaaccca aatgacacct gtctggctag ctgtgttaaa 600  
 agtgaccact cgtgctcgcc atgtgctcca atcataggag aatagctgg agaggttttg 660  
 agatttggtg gtggcattgg cctgttcttc agttttacag agatcctggg tgtttggtctg 720  
 acctacagat acaggaacca gaaagacccc cgcgcgaatc ctagtgcatc cctttgatga 780  
 gaaaacaagg aagatttcct ttcgtattat gatcttgctt actttctgta attttctgtt 840  
 aagctccatt tgccagttta aggaaggaaa cactatctgg aaaagtacct tattgatagt 900  
 ggaattatat atttttactc tatgtttctc tacatgtttt tttctttccg ttgctgaaaa 960  
 atatttgaaa cttgtggtct ctgaagctcg gtggcacctg gaatttactg tattcattgt 1020  
 cgggcactgt ccactgtggc ctttcttagc atttttacct gcagaaaaac tttgtatggg 1080  
 accactgtgt tggttatatg gtgaatctga acgtacatct cactggtata attatatgta 1140  
 gcaactgtgt gtgtagatag ttcctactgg aaaaagagtg gaaatttatt aaaatcagaa 1200  
 agtatgagat cctgttatgt taagggaaat ccaaattccc aatttttttt ggtcttttta 1260  
 ggaaagatgt gttgtggtaa aaagtgttag tataaaaatg gataatttac ttgtgtcttt 1320  
 tatgattaca ccaatgtatt ctagaaatag ttatgtctta ggaaattgtg gtttaatttt 1380  
 tgactttttac aggtaaagtgc aaaggagaag tggtttcatg aaatgttcta atgtataata 1440  
 acattttacct tcagcctcca tcagaatgga acgagttttg agtaatcagg aagtatatct 1500  
 atatgatctt gatattgttt tataataatt tgaagtctaa aagactgcat ttttaacaa 1560  
 gttagtatta atgcgttggc ccacgtagca aaaagatatt tgattatctt aaaaattggt 1620  
 aaataccgtt ttcataaaag ttctcagtat tgtaacagca acttgtcaaa cctaagcata 1680  
 tttgaatatg atctcccata atttgaaatt gaaatcgtat tgtgtggctc tgtatatctt 1740  
 gttaaaaaat taaaggacag aaacctttct ttgtgtatgc atgtttgaat taaaagaaa 1800  
 taatggaaga attgatcgat gaaaaaaaaa a 1831

<210> 298  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 298  
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25

<210> 299  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 299

ccgaagaatt catcaaaatc tcaaaacctc tcc

33

&lt;210&gt; 300

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 300

```

atgcagcatc accaccatca ccaccactgc gcttggttag ccctgaacca ggagcaacag 60
ggtcagcttc tggagggttg ttggaacaat acggcaagtg ctcgaaatga catccagaga 120
aatctaaact gctgtgggtt ccgaagtgtt aaccctaatg acacctgtct ggctagctgt 180
gttaaaagtg accactcgtg ctgcctatgt gctccaatca taggagaata tgctggagag 240
gttttgagat tttgatga                                     258

```

&lt;210&gt; 301

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 301

```

Met Gln His His His His His His His Cys Ala Cys Leu Ala Leu Asn
 1          5          10          15
Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp Asn Asn Thr Ala
 20          25          30
Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys Cys Gly Phe Arg
 35          40          45
Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys Val Lys Ser Asp
 50          55          60
His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu Tyr Ala Gly Glu
65          70          75          80
Val Leu Arg Phe

```

&lt;210&gt; 302

&lt;211&gt; 1598

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

```

tctaaggcac agtatcattt tcagtactga caaggtgttt cattttatat ggttgtcata 60
ataaggcaaa ttcattttgt acgctttata ttttcaaacc cagcaagctc taaaaggagac 120
ataaaataac ttagaaattg ggaaagacgg gcatgtgtat gatcatgata ttcatcccct 180
gccccagaac aaatgggagg aacacattgc ccaaaactca cgtctggagc tctttcaaca 240
tgtctccctg atgaccctgg acagcatcat gaagtgtgcc ttcagccacc agggcagcat 300
ccagttggac agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc 360
caaccagcgc atgaacaatt ttctacatca caacgacctg gttttcaaat tcagctctca 420
aggccaaatc ttttctaaat ttaaccaaga acttcatcag ttcacagaga aagtaatcca 480
ggaccggaag gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg 540

```

```

ggattttctg gacatacttt tgagtgccaa aagcgaaaac accaaagatt tctctgaagc 600
agatctccag gctgaagtga aaacgttcat gtttgcagga catgacacca catccagtgc 660
tatctcctgg atcctttact gcttgccaaa gtaccctgag catcagcaga gatgccgaga 720
tgaaatcagg gaactcctag gggatgggtc ttctattacc tgggaacacc tgagccagat 780
gccttacacc acgatgtgca tcaaggaatg cctccgcctc tacgcaccgg tagtaaacad 840
atcccggtta ctgcacaaac ccatcacctt tccagatgga cgctccttac ctgcaggaat 900
aactgtgttt atcaatattt gggctcttca ccacaacccc tatttctggg aagaccctca 960
gggtctttaac cccttgagat tctccaggga aaattctgaa aaaatacatc cctatgcctt 1020
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taaagtggca gtggcattaa ctctgctccg cttcaagctg gctccagacc actcaaggcc 1140
tccccagcct gttcgtcaag ttgtcctcaa gtccaagaat ggaatccatg tgtttgcaaa 1200
aaaagtttgc taattttaag tcctttcgtg taagaattaa tgagacaatt ttctaccaa 1260
aggaagaaca aaaggataaa tataatacaa aatataatgta tatggttggt tgacaaatta 1320
tataacttag gatacttctg actggttttg acatccatta acagtaattt taatttctt 1380
gctgtatctg gtgaaaccca caaaaacacc tgaaaaaact caagctgact tccactgcga 1440
agggaaatta ttggtttgtg taactagtgg tagagtggct ttcaagcata gtttgatcaa 1500
aactccactc agtatctgca ttacttttat ctctgcaaat atctgcatga tagctttatt 1560
ctcagttatc tttcccata ataaaaaata tctgccac 1598

```

```

<210> 303
<211> 963
<212> DNA
<213> Homo sapiens

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<400> 303
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agtaccctgg actcatacct gaaagcagtg ttcaacctta gcaaaatctc caaccagcgc 120
atgaacaatt ttctacatca caacgacctg gttttcaaat tcagctctca aggccaaatc 180
ttttctaaat ttaaccaaga acttcatcag ttcacagaga aagtaatcca ggaccggaag 240
gagtctctta aggataagct aaaacaagat actactcaga aaaggcgctg ggattttctg 300
gacatacttt tgagtgccaa aagcgaaaac accaaagatt tctctgaagc agatctccag 360
gctgaagtga aaacgttcat gtttgcagga catgacacca catccagtgc tatctcctgg 420
atcctttact gcttgccaaa gtaccctgag catcagcaga gatgccgaga tgaaatcagg 480
gaactcctag gggatgggtc ttctattacc tgggaacacc tgagccagat gccttacacc 540
acgatgtgca tcaaggaatg cctccgcctc tacgcaccgg tagtaaacad atcccggtta 600
ctgcacaaac ccatcacctt tccagatgga cgctccttac ctgcaggaat aactgtgttt 660
atcaatattt gggctcttca ccacaacccc tatttctggg aagaccctca ggtctttaac 720
cccttgagat tctccaggga aaattctgaa aaaatacatc cctatgcctt cataccattc 780
tcagctggat taaggaactg cattgggcag cattttgcca taattgagtg taaagtggca 840
gtggcattaa ctctgctccg cttcaagctg gctccagacc actcaaggcc tccccagcct 900
gttcgtcaag ttgtcctcaa gtccaagaat ggaatccatg tgtttgcaaa aaaagtttgc 960
taa 963

```

```

<210> 304
<211> 2015
<212> DNA
<213> Homo sapiens

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```

<400> 304
ggcattttga aagcccagtg ttgcccaggg ggcattctct ttgtgtttat gagagacctg 60
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agccctcctg gcttcaggaa ctcatggctc accccttctt gctgctgac ctctctgca 180
tgtctctgct gctgtttcag gtaatcaggt tgtaccagag gaggagatgg atgatcagag 240
ccctgcacct gtttcttgca cccctgccc actggttcta tggccacaag gagttttacc 300

```

```

cagtaaagga gtttgagggtg tatcataage tgatggaaaa atacccatgt gctgttccct 360
tgtgggttg accctttacg atgttcttca gtgtccatga cccagactat gccagattc 420
tcctgaaaag acaagatccc aaaagtgtg ttagccacaa aatccttgaa tcctgggttg 480
gtcgaggact tgtgacctg gatggttcta aatggaaaaa gcaccgccag attgtgaaac 540
ctggcttcaa catcagcatt ctgaaaatat tcatcaccat gatgtctgag agtgttcgga 600
tgatgctgaa caaatgggag gaacgcattg cccaaaactc acgtctggag ctctttcaac 660
atgtctccct gatgacctg gacagcatca tgaagtgtgc cttcagccac cagggcagca 720
tccagttgga cagtaccctg gactcatacc tgaaagcagt gttcaacctt agcaaaatct 780
ccaaccagcg catgaacaat tttctacatc acaacgacct ggttttcaaa ttcagctctc 840
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cagatctcca ggctgaagtg aaaacgttca tgtttgcagg acatgacacc acatccagt 1080
ctatctcctg gatcctttac tgcttgccaa agtaccctga gcatcagcag agatgccag 1140
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tgcccttacac cagcatgtgc atcaaggaaat gcctccgcct ctacgcaccg gtagtaaaaca 1260
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ctccccagcc tgctcgtaaa gttgtcctca agtccaagaa tggaatccat gtgtttgcaa 1620
aaaaagtttg ctaattttta gtcctttcgt ataagaatta atgagacaat tttcctacca 1680
aaggaagaac aaaaggataa atataatata aatatatgt atatggttgt ttgacaaatt 1740
atataactta ggatacttct gactggtttt gacatccatt aacagtaatt ttaatttctt 1800
tgctgtatct ggtgaaaccc acaaaaacac ctgaaaaaac tcaagctgac ttccactgcg 1860
aagggaaatt attggtttgt gtaactagt gtagagtggc tttcaagcat agtttgatca 1920
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tctcagttat ctttccccaa taataaaaaa tagct 2015

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<210> 305  
 <211> 1518  
 <212> DNA  
 <213> Homo sapiens

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<400> 305
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tgcattgtct tgctgtgtt tcaggtaatc aggttgtagc agaggaggag atggatgatc 120
agagccctgc acctgtttcc tgcacccct gccactggg tctatggcca caaggagttt 180
taccagtaa aggagtttga ggtgtatcat aagctgatgg aaaaataccc atgtgtgtgt 240
cccttgtggg ttggacctt tacgatgttc ttcagtgtcc atgaccaga ctatgccaag 300
attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 360
gttggctcag gacttgtgac cctggatgg tctaaatgga aaaagcaccg ccagattgtg 420
aaacctggct tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 480
cgatgatgc tgaacaaatg ggaggaacgc attgccaaa actcacgtct ggagctcttt 540
caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 600
agcatccagt tggacagtac cctggactca tacctgaaag cagtgttcaa ccttagcaaa 660
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tctcaaggcc aaatcttttc taaatttaac caagaacttc atcagttcac agagaaaagta 780
atccaggacc ggaaggagtc tcttaaggat aagctaaaaa aagatactac tcagaaaagg 840
cgctgggatt ttctggacat acttttgagt gccaaaagcg aaaacaccaa agatttctct 900
gaagcagatc tccaggctga agtgaacacg ttcattgttg caggacatga caccacatcc 960
agtgtatct cctggatcct ttactgcttg gcaaagtacc ctgagcatca gcagagatgc 1020
cgagatgaaa tcagggaact cctaggggat gggctcttca ttacctggga acacctgagc 1080

```

```

cagatgcctt acaccacgat gtgcatcaag gaatgcctcc gcctctacgc accggtagta 1140
aacatatccc ggttactcga caaaccatc acctttccag atggacgctc cttacctgca 1200
ggaataactg tgtttatcaa tatttgggct cttcaccaca acccctattt ctgggaagac 1260
cctcaggtct ttaaccctt gagattctcc agggaaaatt ctgaaaaaat acatccctat 1320
gccttcatac cattctcagc tggattaagg aactgcattg ggcagcattt tgccataatt 1380
gagtgtaaag tggcagtggc attaaactctg ctccgcttca agctggctcc agaccactca 1440
aggcctcccc agcctgttcg tcaagttgtc ctcaagtcca agaatggaat ccatgtgttt 1500
gcaaaaaaag tttgctaa 1518

```

<210> 306

<211> 320

<212> PRT

<213> Homo sapiens

<400> 306

```

Met Thr Leu Asp Ser Ile Met Lys Cys Ala Phe Ser His Gln Gly Ser
      5                      10                      15

```

```

Ile Gln Leu Asp Ser Thr Leu Asp Ser Tyr Leu Lys Ala Val Phe Asn
      20                      25                      30

```

```

Leu Ser Lys Ile Ser Asn Gln Arg Met Asn Asn Phe Leu His His Asn
      35                      40                      45

```

```

Asp Leu Val Phe Lys Phe Ser Ser Gln Gly Gln Ile Phe Ser Lys Phe
      50                      55                      60

```

```

Asn Gln Glu Leu His Gln Phe Thr Glu Lys Val Ile Gln Asp Arg Lys
      65                      70                      75                      80

```

```

Glu Ser Leu Lys Asp Lys Leu Lys Gln Asp Thr Thr Gln Lys Arg Arg
      85                      90                      95

```

```

Trp Asp Phe Leu Asp Ile Leu Leu Ser Ala Lys Ser Glu Asn Thr Lys
      100                     105                     110

```

```

Asp Phe Ser Glu Ala Asp Leu Gln Ala Glu Val Lys Thr Phe Met Phe
      115                     120                     125

```

```

Ala Gly His Asp Thr Thr Ser Ser Ala Ile Ser Trp Ile Leu Tyr Cys
      130                     135                     140

```

```

Leu Ala Lys Tyr Pro Glu His Gln Gln Arg Cys Arg Asp Glu Ile Arg
      145                     150                     155                     160

```

```

Glu Leu Leu Gly Asp Gly Ser Ser Ile Thr Trp Glu His Leu Ser Gln
      165                     170                     175

```

```

Met Pro Tyr Thr Thr Met Cys Ile Lys Glu Cys Leu Arg Leu Tyr Ala
      180                     185                     190

```

```

Pro Val Val Asn Ile Ser Arg Leu Leu Asp Lys Pro Ile Thr Phe Pro
      195                     200                     205

```

Asp Gly Arg Ser Leu Pro Ala Gly Ile Thr Val Phe Ile Asn Ile Trp  
 210 215 220  
 Ala Leu His His Asn Pro Tyr Phe Trp Glu Asp Pro Gln Val Phe Asn  
 225 230 235 240  
 Pro Leu Arg Phe Ser Arg Glu Asn Ser Glu Lys Ile His Pro Tyr Ala  
 245 250 255  
 Phe Ile Pro Phe Ser Ala Gly Leu Arg Asn Cys Ile Gly Gln His Phe  
 260 265 270  
 Ala Ile Ile Glu Cys Lys Val Ala Val Ala Leu Thr Leu Leu Arg Phe  
 275 280 285  
 Lys Leu Ala Pro Asp His Ser Arg Pro Pro Gln Pro Val Arg Gln Val  
 290 295 300  
 Val Leu Lys Ser Lys Asn Gly Ile His Val Phe Ala Lys Lys Val Cys  
 305 310 315 320

<210> 307  
 <211> 505  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Met Glu Pro Ser Trp Leu Gln Glu Leu Met Ala His Pro Phe Leu Leu  
 5 10 15  
 Leu Ile Leu Leu Cys Met Ser Leu Leu Leu Phe Gln Val Ile Arg Leu  
 20 25 30  
 Tyr Gln Arg Arg Arg Trp Met Ile Arg Ala Leu His Leu Phe Pro Ala  
 35 40 45  
 Pro Pro Ala His Trp Phe Tyr Gly His Lys Glu Phe Tyr Pro Val Lys  
 50 55 60  
 Glu Phe Glu Val Tyr His Lys Leu Met Glu Lys Tyr Pro Cys Ala Val  
 65 70 75 80  
 Pro Leu Trp Val Gly Pro Phe Thr Met Phe Phe Ser Val His Asp Pro  
 85 90 95  
 Asp Tyr Ala Lys Ile Leu Leu Lys Arg Gln Asp Pro Lys Ser Ala Val  
 100 105 110  
 Ser His Lys Ile Leu Glu Ser Trp Val Gly Arg Gly Leu Val Thr Leu  
 115 120 125  
 Asp Gly Ser Lys Trp Lys Lys His Arg Gln Ile Val Lys Pro Gly Phe  
 130 135 140

Asn	Ile	Ser	Ile	Leu	Lys	Ile	Phe	Ile	Thr	Met	Met	Ser	Glu	Ser	Val	145	150	155	160
Arg	Met	Met	Leu	Asn	Lys	Trp	Glu	Glu	Arg	Ile	Ala	Gln	Asn	Ser	Arg	165	170	175	
Leu	Glu	Leu	Phe	Gln	His	Val	Ser	Leu	Met	Thr	Leu	Asp	Ser	Ile	Met	180	185	190	
Lys	Cys	Ala	Phe	Ser	His	Gln	Gly	Ser	Ile	Gln	Leu	Asp	Ser	Thr	Leu	195	200	205	
Asp	Ser	Tyr	Leu	Lys	Ala	Val	Phe	Asn	Leu	Ser	Lys	Ile	Ser	Asn	Gln	210	215	220	
Arg	Met	Asn	Asn	Phe	Leu	His	His	Asn	Asp	Leu	Val	Phe	Lys	Phe	Ser	225	230	235	240
Ser	Gln	Gly	Gln	Ile	Phe	Ser	Lys	Phe	Asn	Gln	Glu	Leu	His	Gln	Phe	245	250	255	
Thr	Glu	Lys	Val	Ile	Gln	Asp	Arg	Lys	Glu	Ser	Leu	Lys	Asp	Lys	Leu	260	265	270	
Lys	Gln	Asp	Thr	Thr	Gln	Lys	Arg	Arg	Trp	Asp	Phe	Leu	Asp	Ile	Leu	275	280	285	
Leu	Ser	Ala	Lys	Ser	Glu	Asn	Thr	Lys	Asp	Phe	Ser	Glu	Ala	Asp	Leu	290	295	300	
Gln	Ala	Glu	Val	Lys	Thr	Phe	Met	Phe	Ala	Gly	His	Asp	Thr	Thr	Ser	305	310	315	320
Ser	Ala	Ile	Ser	Trp	Ile	Leu	Tyr	Cys	Leu	Ala	Lys	Tyr	Pro	Glu	His	325	330	335	
Gln	Gln	Arg	Cys	Arg	Asp	Glu	Ile	Arg	Glu	Leu	Leu	Gly	Asp	Gly	Ser	340	345	350	
Ser	Ile	Thr	Trp	Glu	His	Leu	Ser	Gln	Met	Pro	Tyr	Thr	Thr	Met	Cys	355	360	365	
Ile	Lys	Glu	Cys	Leu	Arg	Leu	Tyr	Ala	Pro	Val	Val	Asn	Ile	Ser	Arg	370	375	380	
Leu	Leu	Asp	Lys	Pro	Ile	Thr	Phe	Pro	Asp	Gly	Arg	Ser	Leu	Pro	Ala	385	390	395	400
Gly	Ile	Thr	Val	Phe	Ile	Asn	Ile	Trp	Ala	Leu	His	His	Asn	Pro	Tyr	405	410	415	
Phe	Trp	Glu	Asp	Pro	Gln	Val	Phe	Asn	Pro	Leu	Arg	Phe	Ser	Arg	Glu	420	425	430	

Asn Ser Glu Lys Ile His Pro Tyr Ala Phe Ile Pro Phe Ser Ala Gly  
 435 440 445

Leu Arg Asn Cys Ile Gly Gln His Phe Ala Ile Ile Glu Cys Lys Val  
 450 455 460

Ala Val Ala Leu Thr Leu Leu Arg Phe Lys Leu Ala Pro Asp His Ser  
 465 470 475 480

Arg Pro Pro Gln Pro Val Arg Gln Val Val Leu Lys Ser Lys Asn Gly  
 485 490 495

Ile His Val Phe Ala Lys Lys Val Cys  
 500 505

<210> 308  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Val Ile Gln Asp Arg Lys Glu Ser Leu Lys Asp Lys Leu Lys Gln Asp  
 1 5 10 15  
 Thr Thr Gln Lys Arg Arg Trp  
 20

<210> 309  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 309  
 Gly His Lys Glu Phe Tyr Pro Val Lys Glu Phe Glu Val Tyr His Lys  
 1 5 10 15  
 Leu Met Glu Lys Tyr Pro Cys  
 20

<210> 310  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
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 Gln Ile Val Lys Pro Gly Phe  
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<210> 311  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
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 Ala Val Phe Asn Leu Ser Lys Ile  
 20

<210> 312  
 <211> 1548  
 <212> DNA  
 <213> Homo sapiens

<400> 312  
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 agagccctgc acctgtttcc tgcacccctt gccactgggt tctatggcca caaggagttt 180  
 taccagtaaa aggagtttga ggtgtatcat aagctgatgg aaaaataccc atgtgctggt 240  
 cccttggtggg ttggaccctt tacgatgttc ttcagtgtcc atgaccagga ctatgccaag 300  
 attctcctga aaagacaaga tcccaaaagt gctgttagcc acaaaatcct tgaatcctgg 360  
 gttgggtcgag gacttggtgac cctggatggt tctaaatgga aaaagcacccg ccagattgtg 420  
 aaacctgggt tcaacatcag cattctgaaa atattcatca ccatgatgtc tgagagtgtt 480  
 cggatgatgc tgaacaaatg ggaggaacac attgcccaaa actcacgtct ggagctcttt 540  
 caacatgtct ccctgatgac cctggacagc atcatgaagt gtgccttcag ccaccagggc 600  
 agcatccagt tggacagtac cctggactca tacctgaaag cagtgttcaa ccttagcaaa 660  
 atctccaacc agcgcatgaa caattttcta catcacaacg acctggtttt caaattcagc 720  
 tctcaaggcc aaattctttc taaatttaac caagaacttc atcagttcac agagaaaagta 780  
 atccaggacc ggaaggagtc tcttaaggat aagctaaaac aagatactac tcagaaaagg 840  
 cgctgggatt ttctggacat acttttgagt gccaaaagcg aaaacaccaa agatttctct 900  
 gaagcagatc tccaggctga agtgaaaacg ttcattgtttg caggacatga caccacatcc 960  
 agtgctatct cctggatcct ttactgcttg gcaaagtacc ctgagcatca gcagagatgc 1020  
 cgagatgaaa tcagggaact cctaggggat gggctcttcta ttacctggga acacctgagc 1080  
 cagatgcctt acaccacgat gtgcatcaag gaatgcctcc gcctctacgc accggtagta 1140  
 aacatatccc ggttactcga caaacccatc acctttccag atggacgctc cttacctgca 1200  
 ggaataactg tgtttatcaa tatttgggcc cttcaccaca acccctattt ctgggaagac 1260  
 cctcaggtct ttaaccctt gagattctcc agggaaaatt ctgaaaaaat acatccctat 1320  
 gccttcatac cattctcagc tggattaagg aactgcattg ggcagcattt tgccataatt 1380  
 gagtgtaaag tggcagtggtc attaaactctg ctccgcttca agctggctcc agaccactca 1440  
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 gcaaaaaaag tttgccatca tcaccatcat catcaccatc accattag 1548

<210> 313  
 <211> 515  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Met Glu Pro Ser Trp Leu Gln Glu Leu Met Ala His Pro Phe Leu Leu  
 1 5 10 15  
 Leu Ile Leu Leu Cys Met Ser Leu Leu Leu Phe Gln Val Ile Arg Leu

			20					25					30				
Tyr	Gln	Arg	Arg	Arg	Trp	Met	Ile	Arg	Ala	Leu	His	Leu	Phe	Pro	Ala		
		35					40					45					
Pro	Pro	Ala	His	Trp	Phe	Tyr	Gly	His	Lys	Glu	Phe	Tyr	Pro	Val	Lys		
	50					55					60						
Glu	Phe	Glu	Val	Tyr	His	Lys	Leu	Met	Glu	Lys	Tyr	Pro	Cys	Ala	Val		
65					70					75					80		
Pro	Leu	Trp	Val	Gly	Pro	Phe	Thr	Met	Phe	Phe	Ser	Val	His	Asp	Pro		
				85					90					95			
Asp	Tyr	Ala	Lys	Ile	Leu	Leu	Lys	Arg	Gln	Asp	Pro	Lys	Ser	Ala	Val		
		100						105					110				
Ser	His	Lys	Ile	Leu	Glu	Ser	Trp	Val	Gly	Arg	Gly	Leu	Val	Thr	Leu		
	115						120					125					
Asp	Gly	Ser	Lys	Trp	Lys	Lys	His	Arg	Gln	Ile	Val	Lys	Pro	Gly	Phe		
	130					135					140						
Asn	Ile	Ser	Ile	Leu	Lys	Ile	Phe	Ile	Thr	Met	Met	Ser	Glu	Ser	Val		
145					150					155					160		
Arg	Met	Met	Leu	Asn	Lys	Trp	Glu	Glu	His	Ile	Ala	Gln	Asn	Ser	Arg		
				165					170						175		
Leu	Glu	Leu	Phe	Gln	His	Val	Ser	Leu	Met	Thr	Leu	Asp	Ser	Ile	Met		
			180					185					190				
Lys	Cys	Ala	Phe	Ser	His	Gln	Gly	Ser	Ile	Gln	Leu	Asp	Ser	Thr	Leu		
	195						200					205					
Asp	Ser	Tyr	Leu	Lys	Ala	Val	Phe	Asn	Leu	Ser	Lys	Ile	Ser	Asn	Gln		
	210					215					220						
Arg	Met	Asn	Asn	Phe	Leu	His	His	Asn	Asp	Leu	Val	Phe	Lys	Phe	Ser		
225					230					235					240		
Ser	Gln	Gly	Gln	Ile	Phe	Ser	Lys	Phe	Asn	Gln	Glu	Leu	His	Gln	Phe		
				245					250					255			
Thr	Glu	Lys	Val	Ile	Gln	Asp	Arg	Lys	Glu	Ser	Leu	Lys	Asp	Lys	Leu		
			260					265					270				
Lys	Gln	Asp	Thr	Thr	Gln	Lys	Arg	Arg	Trp	Asp	Phe	Leu	Asp	Ile	Leu		
	275						280					285					
Leu	Ser	Ala	Lys	Ser	Glu	Asn	Thr	Lys	Asp	Phe	Ser	Glu	Ala	Asp	Leu		
	290					295					300						
Gln	Ala	Glu	Val	Lys	Thr	Phe	Met	Phe	Ala	Gly	His	Asp	Thr	Thr	Ser		
305					310					315					320		
Ser	Ala	Ile	Ser	Trp	Ile	Leu	Tyr	Cys	Leu	Ala	Lys	Tyr	Pro	Glu	His		
				325					330					335			
Gln	Gln	Arg	Cys	Arg	Asp	Glu	Ile	Arg	Glu	Leu	Leu	Gly	Asp	Gly	Ser		
				340				345					350				
Ser	Ile	Thr	Trp	Glu	His	Leu	Ser	Gln	Met	Pro	Tyr	Thr	Thr	Met	Cys		
		355					360					365					
Ile	Lys	Glu	Cys	Leu	Arg	Leu	Tyr	Ala	Pro	Val	Val	Asn	Ile	Ser	Arg		
	370					375					380						
Leu	Leu	Asp	Lys	Pro	Ile	Thr	Phe	Pro	Asp	Gly	Arg	Ser	Leu	Pro	Ala		
385					390					395					400		
Gly	Ile	Thr	Val	Phe	Ile	Asn	Ile	Trp	Ala	Leu	His	His	Asn	Pro	Tyr		
				405					410					415			
Phe	Trp	Glu	Asp	Pro	Gln	Val	Phe	Asn	Pro	Leu	Arg	Phe	Ser	Arg	Glu		
			420					425				430					
Asn	Ser	Glu	Lys	Ile	His	Pro	Tyr	Ala	Phe	Ile	Pro	Phe	Ser	Ala	Gly		
		435					440					445					
Leu	Arg	Asn	Cys	Ile	Gly	Gln	His	Phe	Ala	Ile	Ile	Glu	Cys	Lys	Val		

450					455					460					
Ala	Val	Ala	Leu	Thr	Leu	Leu	Arg	Phe	Lys	Leu	Ala	Pro	Asp	His	Ser
465					470					475					480
Arg	Pro	Pro	Gln	Pro	Val	Arg	Gln	Val	Val	Leu	Lys	Ser	Lys	Asn	Gly
485					490					495					
Ile	His	Val	Phe	Ala	Lys	Lys	Val	Cys	His	His	His	His	His	His	His
500					505					510					
His	His	His													
515															